STEREO CASSETTE RECEIVER

KRX-593/793

SERVICE MANUAL

KENWOOD

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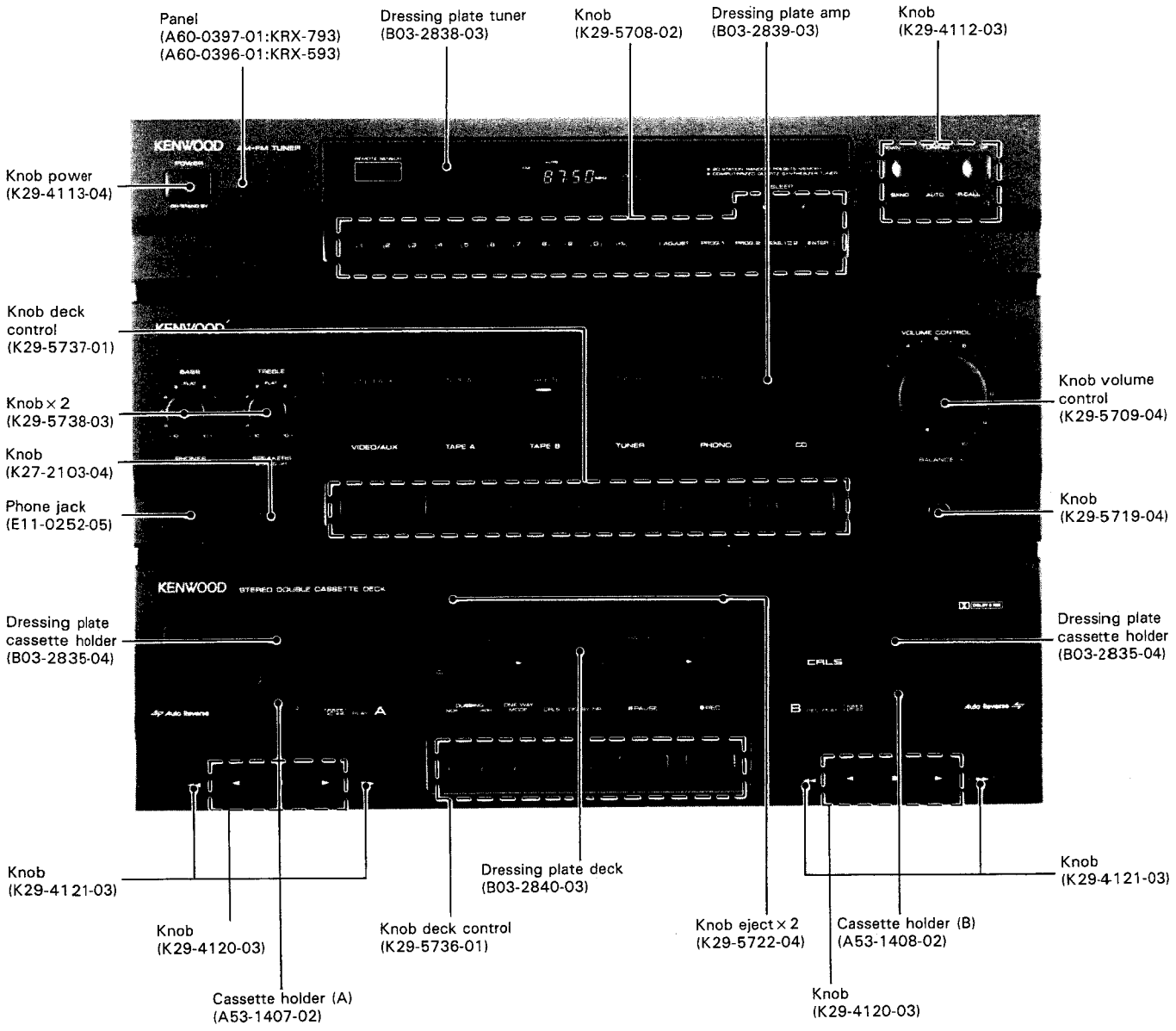

Note
Refer to X-722 service manual (B51-4376-00) or X-45/85 service manual (B51-4347-00), if need description about cassette mechanism.

Photo is KRX-793
*** Refer to parts list on page 47.**

MC-Service

KRX-593/793

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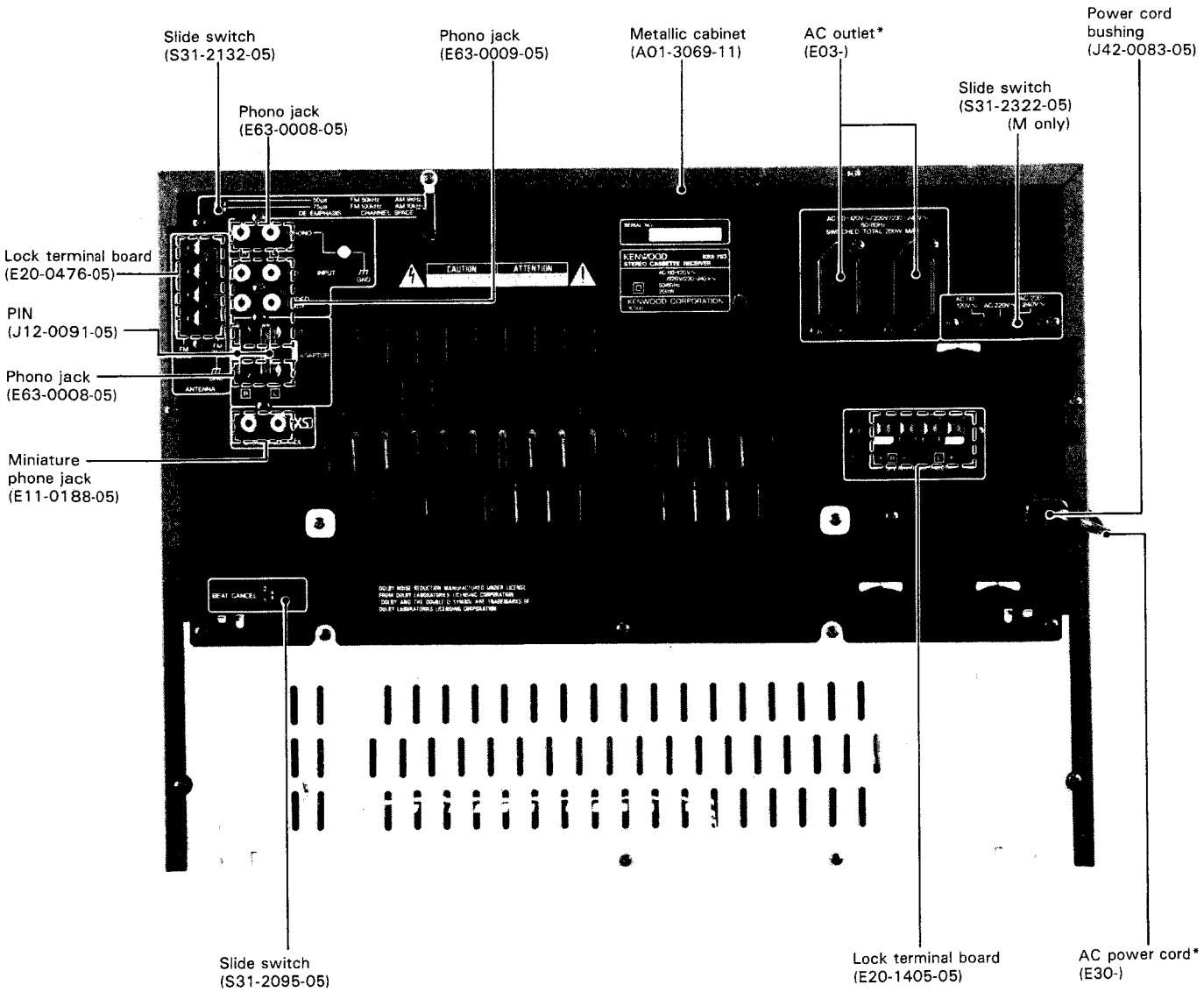


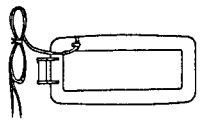
Photo is KRX-793

*** Refer to parts list on page 47.**

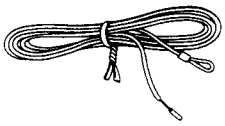
ACCESSORIES/REMOTE CONTROL UNIT

ACCESSORIES

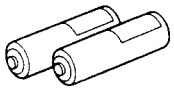
- AM loop antenna..... 1
  (T90-0174-05)



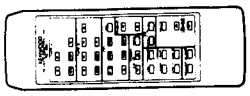
- FM indoor antenna.... 1
  (T90-0182-15)



- Batteries (R06/AA).... 2



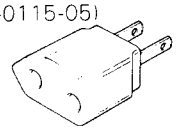
- Remote control unit ... 1
  (A70-0592-05)



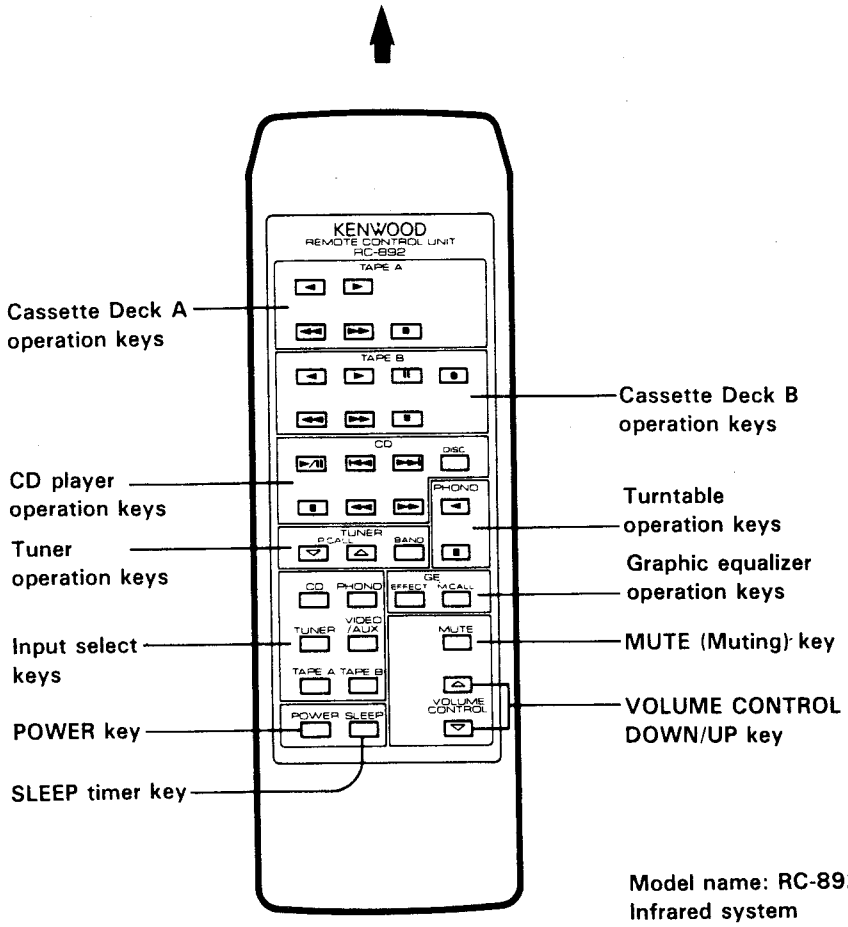
BATTERY COVER
(A09-0112-08)

- Loop antenna stand .. 1
  (J19-3583-04)

- AC plug adaptor 1
  (Except for some areas)
  (E03-0115-05)



REMOTE CONTROL UNIT

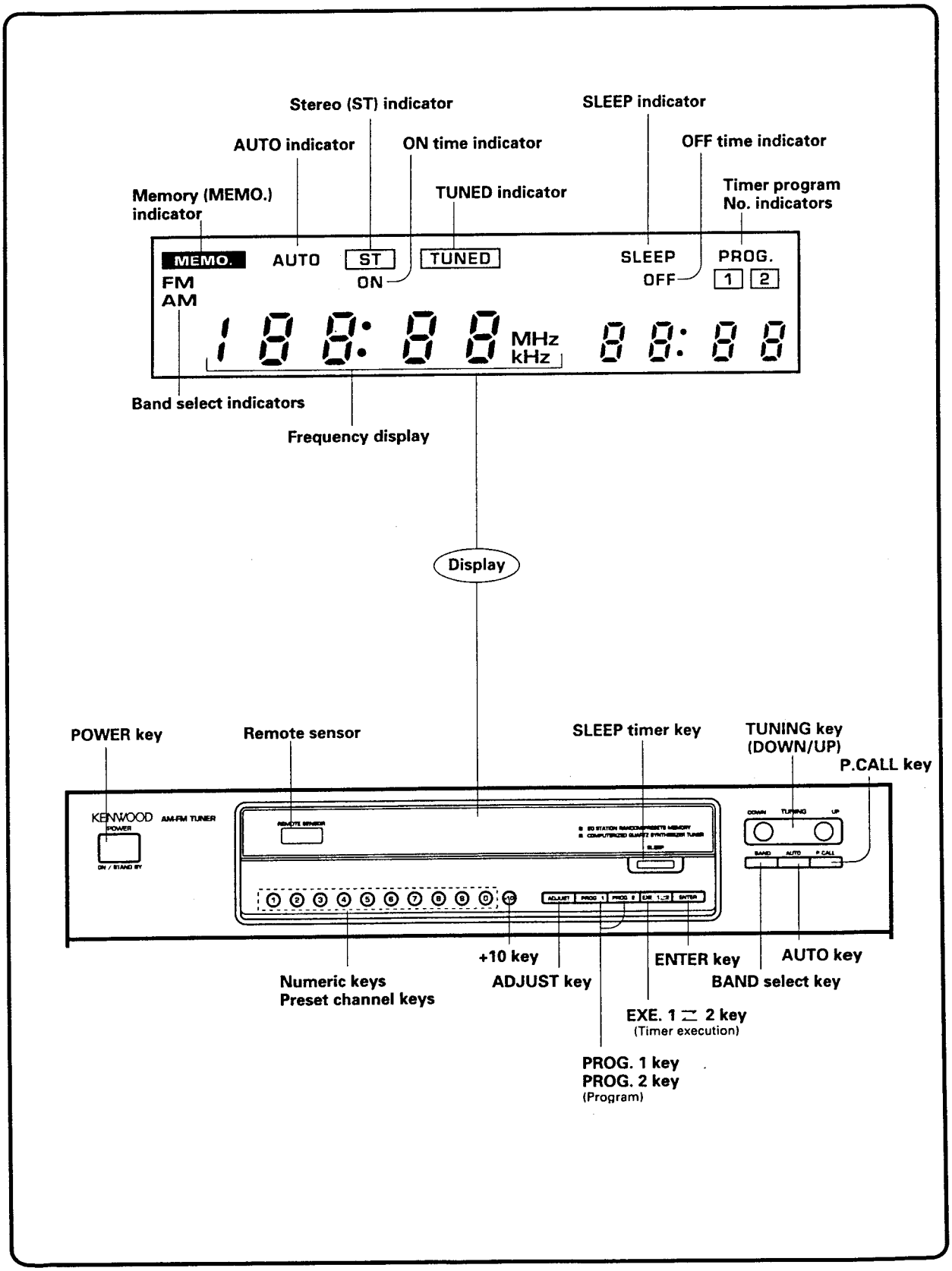


Model name: RC-892
Infrared system

KRX-593/793

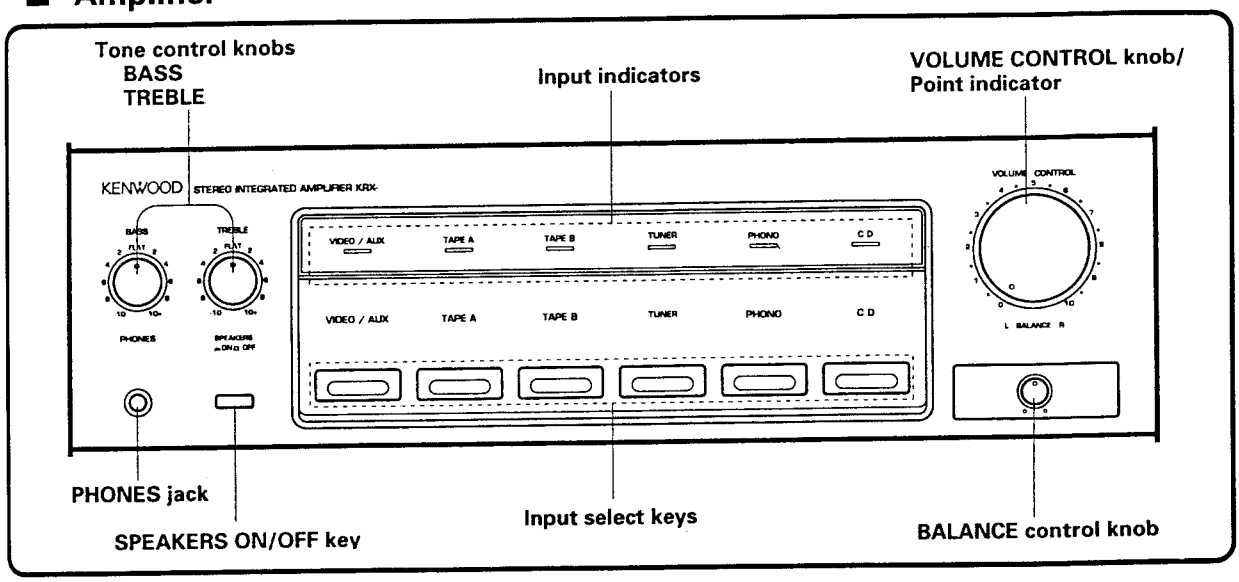
CONTROLS AND INDICATORS

■ Tuner

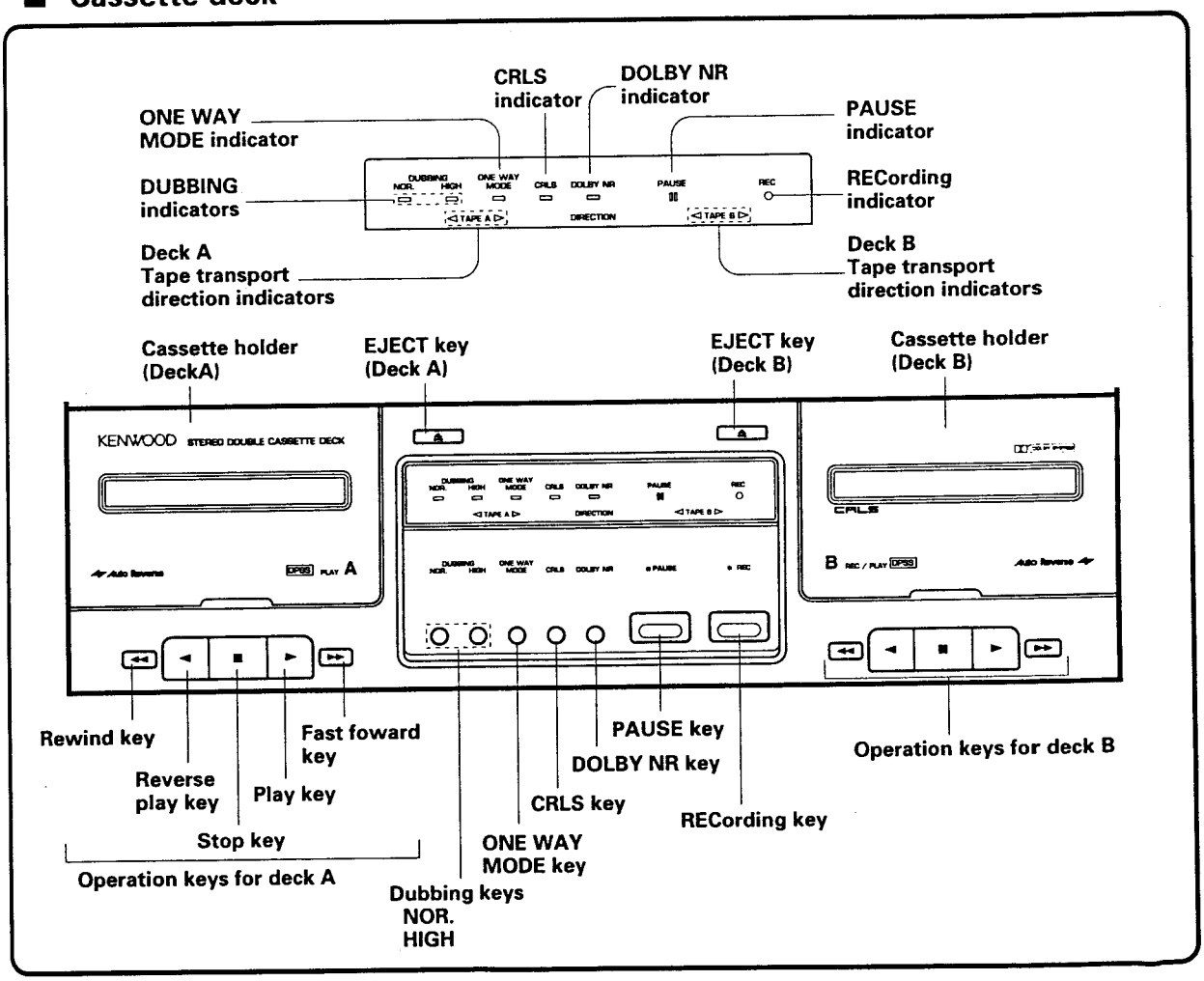


CONTROLS AND INDICATORS

■ Amplifier



■ Cassette deck



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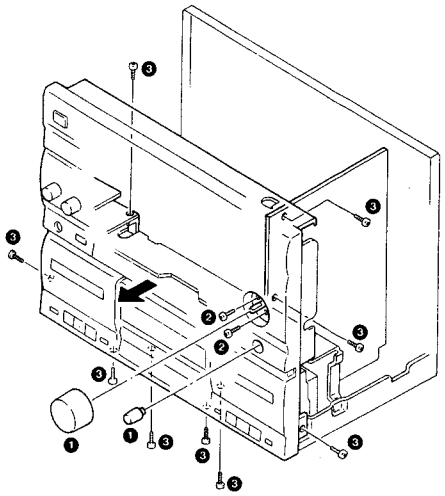
DISASSEMBLY FOR REPAIR

* After removing the case, perform disassembly for repair as follows.



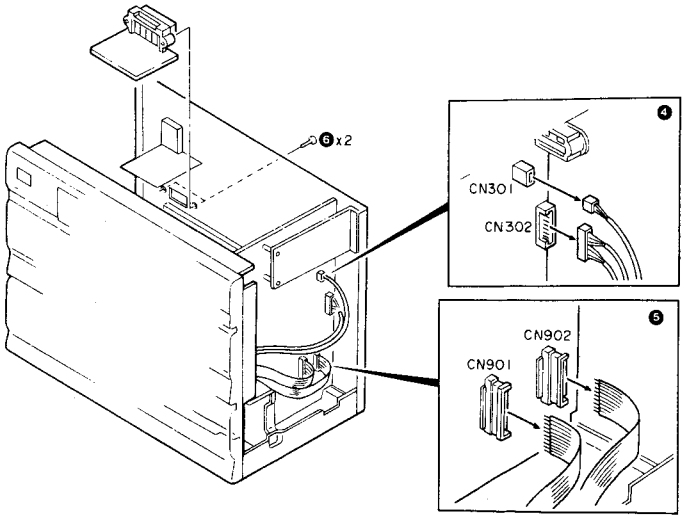
1) Removing the front panel

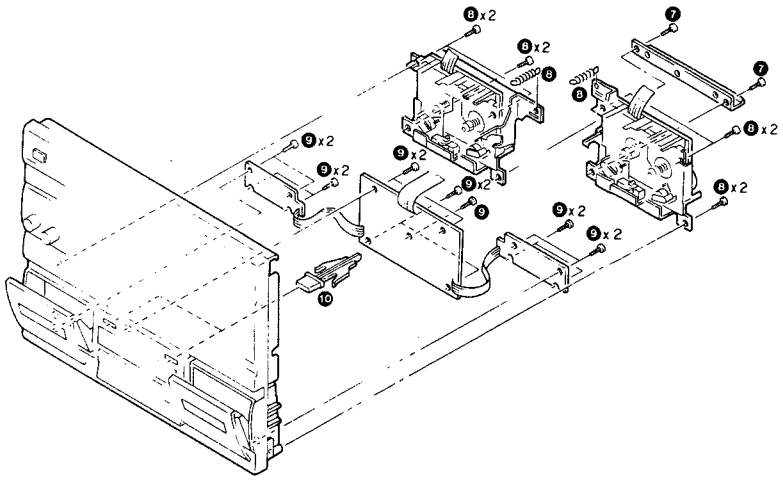
1. Remove the two knobs (❶), and two screws (❷).
2. Remove the nine screws (❸).
3. Remove the front panel in the direction of arrow.

Note: When checking the electrical operation, connect the ground of front panel side with the ground of main side.

2) Removing the cassette mechanism and PC board

1. Disconnect the head lead from CN301 and CN302 of PCB-REC/PLAYBACK (❹), then cut the wire band.
2. Disconnect the control cable from CN901 and CN902 of PCB-REC/PLAYBACK (❺).
3. Remove the two screws (❻), then remove the PCB SP.JACK.
4. Remove the two screws, then remove the lead plate (❼).
5. Remove the eight screws and two springs (❽), then remove the cassette mechanism.
6. Remove the thirteen screws (❾), then remove the PC boards.
7. Remove the EJECT knobs (❿).

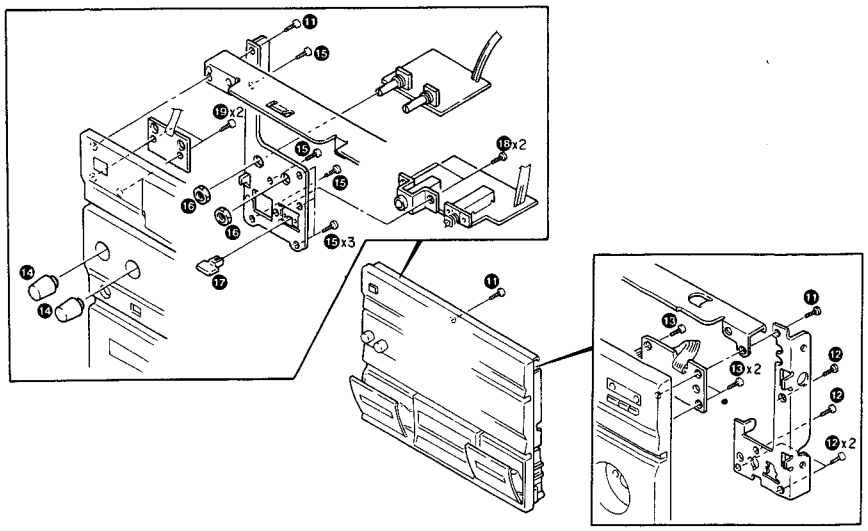




DISASSEMBLY FOR REPAIR

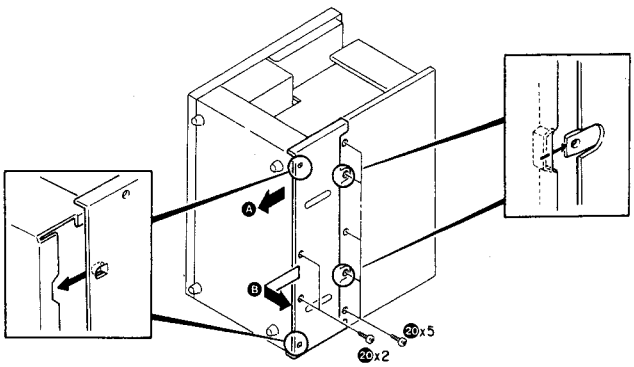
3) Removing the PCB-SW TUNER, PCB-TONE, PCB-PHONE and PCB-SW POWER

1. Remove the three screws (⑪) of frame.
2. Remove the four screws (⑫), then remove the right frame.
3. Remove the three screws (⑬), then remove the PCB-SW TUNER.
4. Remove the two knobs (⑭) and six screws (⑮), then remove the left frame.
5. Remove the two nuts (⑯), then remove the PCB-TONE.
6. Remove the one knob (⑰) and two screws (⑱), then remove the PCB- PHONE.
7. Remove the two screws (⑲), then remove the PCB-SW POWER.



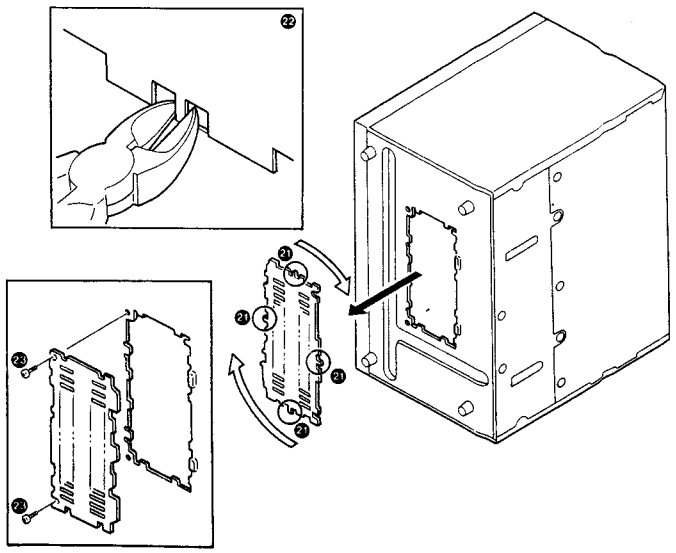
4) Removing the rear panel

1. Remove the seven screws (⑳).
2. Remove the two hooks while moving the main chassis in the direction of arrow (Ⓐ), then remove the rear panel in the direction of arrow (Ⓑ).



5) Removing the repairing chassis

1. Cut the four parts (㉑) of the repairing chassis. (㉒)
2. After repairing, turn the repairing chassis 180 degree, then lock to the main chassis by two screws (M3×8). (㉓)



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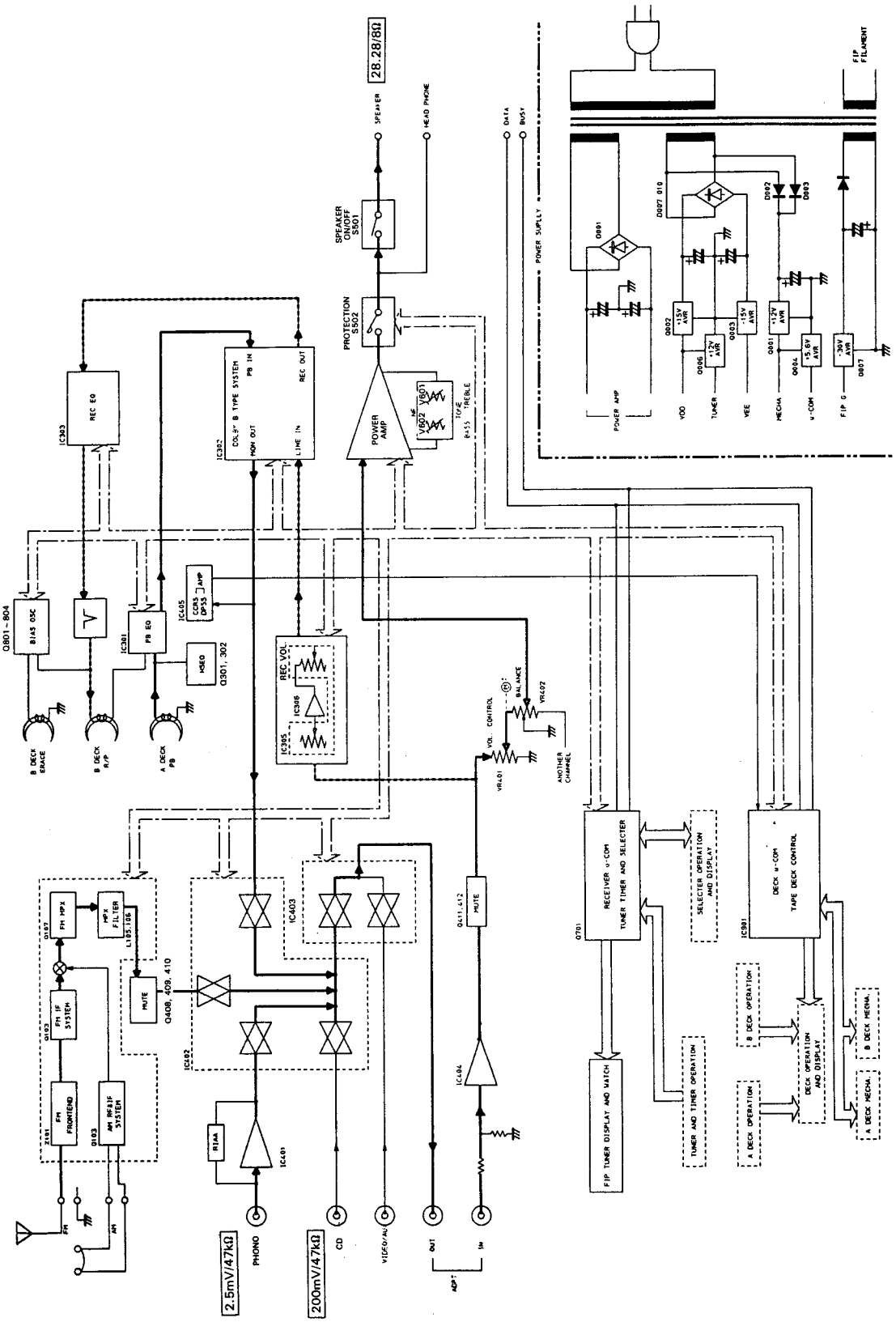
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

RECEIVER (AMPLIFIER TUNER) SECTION

1. CONDITIONS BY DESTINATION

Destination type	Band	Receiving frequency range	Interchannel space	Intermediate frequency	PLL reference frequency	PLL (LM7001) output port	
						⑧	⑨
M, Y	FM	87.5 ~ 108.0MHz	50kHz/100kHz	+ 10.7MHz	50kHz	H	L
	AM	531 ~ 1602kHz /530 ~ 1610kHz	9kHz/10kHz	+ 450kHz	9kHz/10kHz	L	H
K, P	FM	87.5 ~ 108.0MHz	100kHz	+ 10.7MHz	50kHz	H	L
	AM	530 ~ 1700kHz	10kHz	+ 450kHz	10kHz	L	H
X	FM	87.5 ~ 108.0MHz	50kHz	+ 10.7MHz	50kHz	H	L
	AM	531 ~ 1602kHz	9kHz	+ 450kHz	9kHz	L	H

2. INITIAL STATE

	State	
POWER		OFF
AMP section	INPUT MUTE	TUNER OFF
TUNER section	BAND Receiving frequency TUNING MODE Preset state	FM 87.5MHz AUTO Test frequency
TIMER section	Cloc. Timer program (1) and (2) Execution mode	0:00 ON 0:00 OFF 0:00 Non-execution

2-1. Initial state setting

The initial state is set in the following cases:

1) When the backup memory is erased.
2) When the AC plug is inserted into the wall outlet while holding down the selector TUNER key.

2-2. Test frequency in initial state

The frequency preset for each channel in the initial state is as shown in the table.

Channel	Frequency
1	98.0MHz
2	108.0MHz
3	630kHz
4	990kHz
5	1440kHz
6	1610kHz (1602kHz)*1
7	1700kHz (87.5MHz)*2
8	87.5MHz
9	87.5MHz
10	89.1MHz
11 ~ 20	87.5MHz

*1 1602kHz is set for 9kHz step only.
*2 87.5MHz is set for NARROW band only.

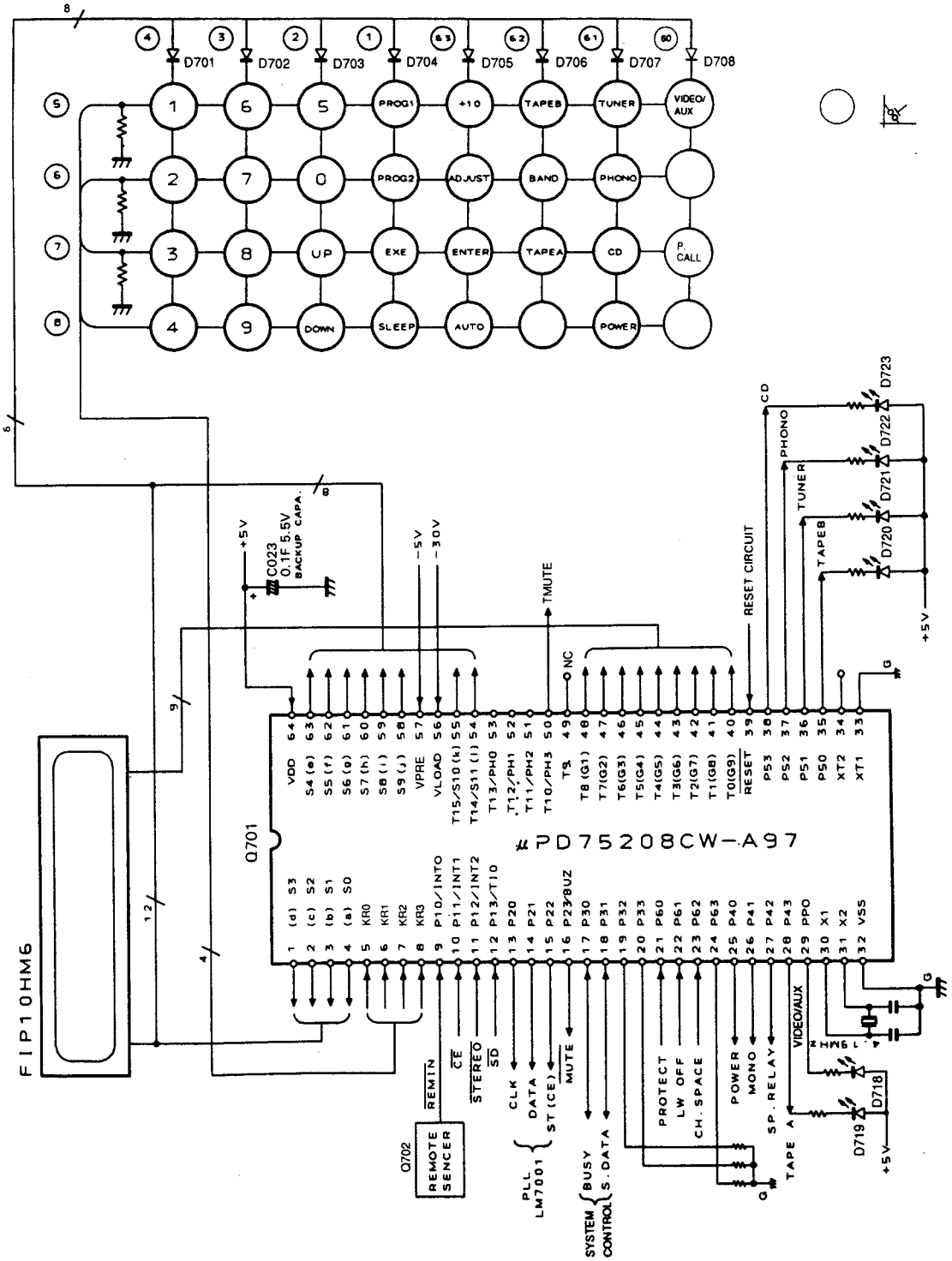
3. TEST MODE

- Operation
  Insert the AC plug into the wall outlet while holding down the selector TAPE A key.
- Cancel
  Press the PHONO key (lighting cancel only) or pull the AC plug out of the wall outlet (reset) when all indicators are lit with the power on.
- Contents
  The power is automatically turned on, and fluorescent display indicators and LED indicators light. The fluorescent display indicators and LED indicators return to the normal state when the PHONO key is pressed with the indicators and power on. The volume control motor drive test can be performed in the test mode with the selector TAPE B key. The volume is increased when this key is pressed with the VOLUME knob at minimum. The volume is decreased after about 14 seconds, then the key is set to off after about 14 seconds.

CIRCUIT DESCRIPTION

4. μPD75208CW-A97 (PCB-DISPLAY X14: Q701)
Receiver microprocessor

4-1. Terminal connection diagram



CIRCUIT DESCRIPTION

4-2. Pin Function

Pin No.	Pin Name	I/O	Name	Description
1~4	S3~S0	O	d~a	Segment drive/key scan
5~8	P00~P03	I	KR0~KR3	Key-matrix, key return input
9	P10	I	$\overline{\text{REMIN}}$	Remote cotnrol input — Active Low
10	P11	I	$\overline{\text{CE}}$	Backup detection — Active Low
11	P12	I	$\overline{\text{STEREO}}$	Stereo broadcast detection — Active Low
12	P13	I	$\overline{\text{SD}}$	Station detection — Active Low
13	P20	O	CLK	Control PLL IC (LM7001) clock
14	P21	O	DATA	Control PLL IC (LM7001) data
15	P22	O	ST (CE)	Control PLL IC (LM7001) strobe
16	P23	O	$\overline{\text{MUTE}}$	Mute signal output — Active Low
17	P30	I/O	BUSY	System control signal input/output (BUSY)
18	P31	I/O	SDATA	System control signal input/output (DATA)
19, 20	P32, P33			No used — GND
21	P60	I	PROTECT	Protection signal input
22	P61	I	LW OFF	Institute band "Long Wave" — L: LW H: OFF
23	P62	I	CH-SPACE	Institute "Channel space" — (FM) L: 100K H: 50K
24	P63			No used
25	P40	O	POWER	Power relay control — H: Power ON
26	P41	O	MONO	Monaural control — H: Mono
27	P42	O	SPRLY	Control OUTPUT relay — H: Relay ON
28	P43	O	$\overline{\text{L TAPEA}}$	Input selector LED (TAPE A) — Active Low
29	PP0	O	$\overline{\text{L VIDEO/AUX}}$	Input selector LED (VIDEO/AUX) — Active Low
30	X1	I		System clock oscillation (crystal 4.194304 MHz)
31	X2	O		System clock oscillation (crystal 4.194304 MHz)
32	V_{SS}			Power supply (GND)
33, 34	XT1, XT2			No used
35	P50	O	$\overline{\text{L TAPEB}}$	Input selector LED (TAPE B) — Active Low
36	P51	O	$\overline{\text{L TUNER}}$	Input selector LED (TUNER) — Active Low
37	P52	O	$\overline{\text{L PHONO}}$	Input selector LED (PHONO) — Active Low
38	P53	O	$\overline{\text{L CD}}$	Input selector LED (CD) — Active Low
39	$\overline{\text{RESET}}$	I		Reset — L: RESET
40~48	T0~T8	O	9G~1G	Grid control
49	T9			No used
50	PH3	O	T MUTE	TUNER MUTE drive
51~53	PH2~PH0			No used
54, 55	S11, S10	O	ℓ, k	Segment drive/key scan
56	V_{LOAD}			Pull-down fro FL (−30 V)
57	V_{PRE}			Predriver for FL
58~63	S9~S4	O	j~e	Segment drive/key scan
64	V_{DD}			Power supply (+5 V)

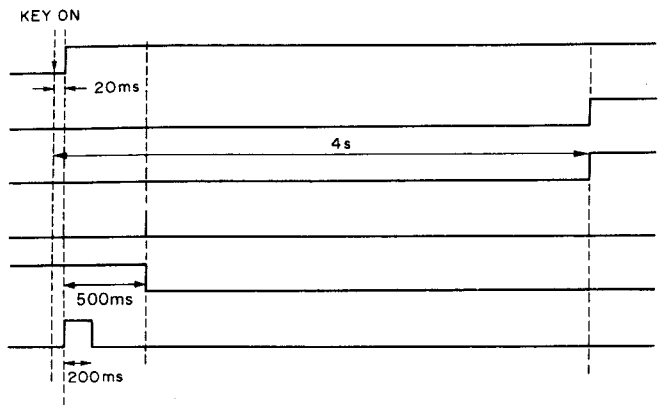
MC-Service

CIRCUIT DESCRIPTION

4-3. Timing chart

(1) POWER ON

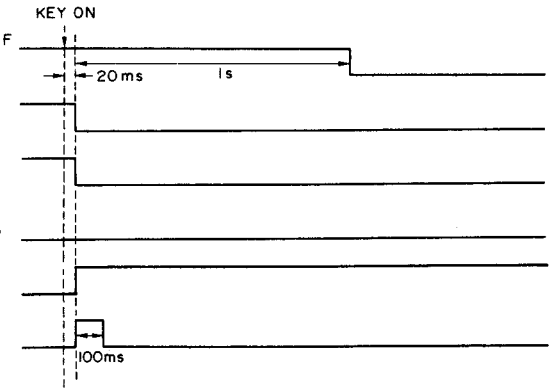
i) KEY POWER ON



ii) REMOCON POWER ON

(2) POWER OFF

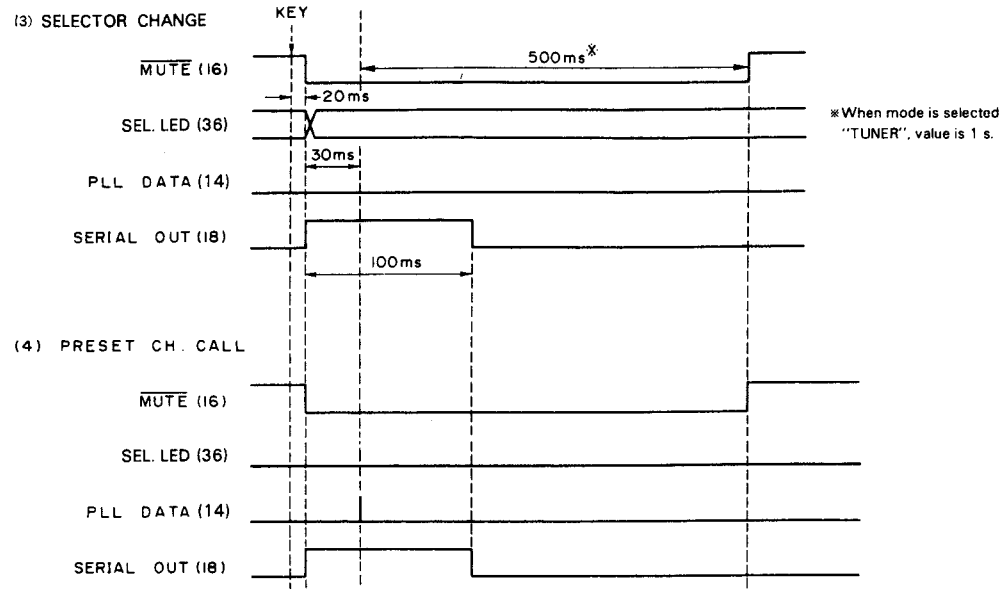
i) KEY POWER OFF



ii) REMOCON POWER OFF

CIRCUIT DESCRIPTION

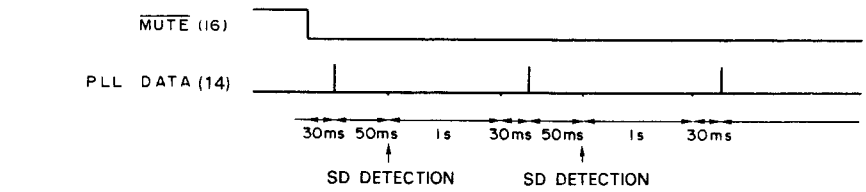
(3) SELECTOR CHANGE



(4) PRESET CH. CALL

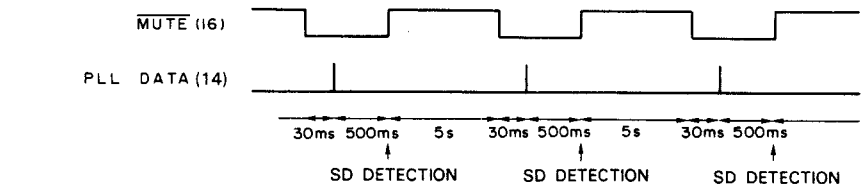
(5) PRESET CH. SCAN

i) No station

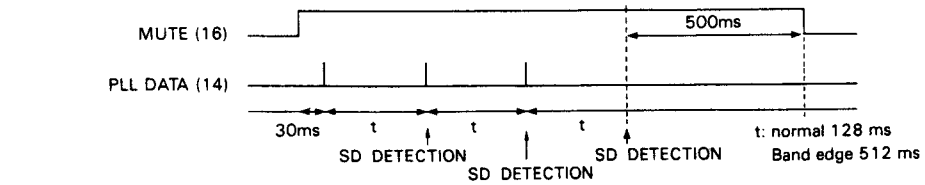


*Don't detect SD signal in non-TUNER mode.

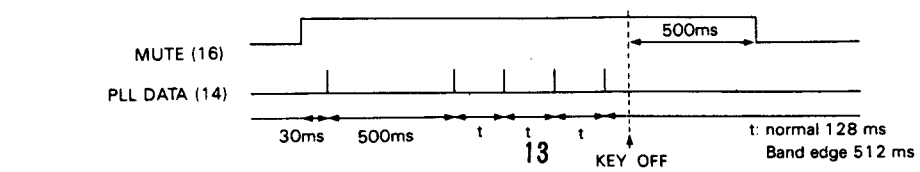
ii) Station



(6) AUTO TUNING



(7) MANUAL TUNING



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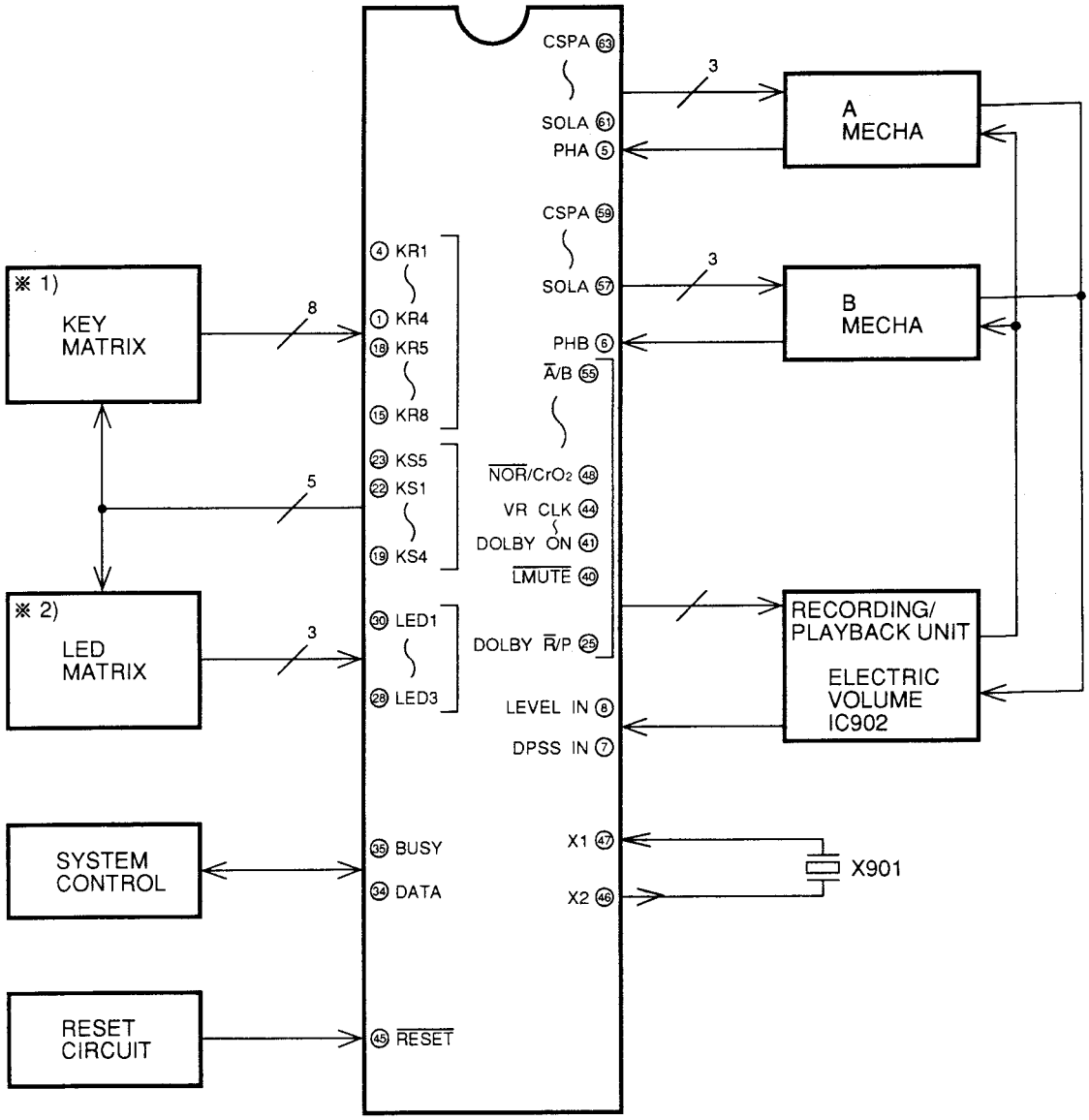
CIRCUIT DESCRIPTION

DECK SECTION

5. DECK MICROPROCESSOR: μPD75112CW-149 (PCB-REC/PLAYBACK X28: IC901)

5-1. Terminal connection diagram



CIRCUIT DESCRIPTION

5-2. Key matrix (*1)

PIN No. of IC901		㉒	㉑	⑳	⑲	㉓
		KS1	KS2	KS3	KS4	KS5
④	KR1	ONEWAY	—	B CrO_2	B ◄◄	NDUB
③	KR2	A ►	A ►►	B ●	B ◄	HDUB
②	KR3	A ◄	DOLBY	B II	B ►►	—
①	KR4	A ■	A ◄◄	B ■	B ►	CRLS
⑱	KR5	A PLAY	—	B PLAY	—	TEST 1
⑰	KR6	A PACK	—	B PACK	—	TEST 2
⑯	KR7	A CrO_2	—	B INHFB	—	—
⑮	KR8	—	—	B INHRB	—	—

5-3. LED matrix (*2)

PIN No. of IC 901		㉒	㉑	⑳	⑲	㉓
		KS1	KS2	KS3	KS4	KS5
㉚	LED1	DOLBY	NDUB	HDUB	CRLS	—
㉙	LED2	—	PAUSE	REC	B FWD	ONEWAY
㉘	LED3	A RVS	A FWD	B RVS	—	—

5-4. Initial Setting

When the power cord is disconnected, then connected again, initial setting is entered.

Item	Setting
DOLBY $\overline{R}$/P	PLAY
DOLBY ON/$\overline{OFF}$	OFF
R/$\overline{P}$	PLAY
$\overline{A}$/B	A
EQ SPEED	NORMAL
$\overline{REC\ MUTE}$	ON
$\overline{LINE\ MUTE}$	ON
$\overline{MUTE}$	ON
$\overline{BIAS}$	OFF
NOR/$\overline{CrO_2}$	NORMAL
$\overline{NOR}$/CrO_2	NORMAL
SELECTOR	TUNER
ELECTROMOTIVE VOLUME	– 15 dB

CIRCUIT DESCRIPTION

5-5. Pin Function

Pin No.	Pin name	I/O	Symbol	Function	
1	P13/INT3	I	KR4	Key return input	H : SW OFF L : SW ON
2	P12/INT2	I	KR3	Key return input	H : SW OFF L : SW ON
3	P11/INT1	I	KR2	Kye return input	H : SW OFF L : SW ON
4	P10/INT0	I	KR1	Key return input (Mechanism switch input)	H : SW OFF L : SW ON
5	PTH03	I	PHA	Mechanism A rotation detection sensor input	
6	PTH02	I	PHB	Mechanism B rotation detection sensor input	
7	PTH01	I	DPSS IN	Section-between-tunes signal input	H : With tune L : Without tune
8	PTH00	I	LEVEL IN	Meter signal input	
9	TI0	I	NC	No use (GND)	
10	TI1	I	NC	No use (GND)	
11	P23	O	NC	No use (GND)	
12	P22/PCL	O	M. VOL. UP	Motor volume UP signal	
13	P21/PTO1	O	M. VOL. DOWN	Motor volume DOWN signal	
14	P20/PTO0	O	NC	No use (OPEN)	
15	P03/SI	I	KR8	Mechanism switch input (L: SW ON).	
16	P02/SO	I	KR7	Mechanism switch input (L: SW ON).	
17	P01/$\overline{SCK}$	I	KR6	Mechanism switch input (L: SW ON).	
18	P00/INT4	I	KR5	Mechanism switch input (L: SW ON).	
19	P123	O	KS4	Key scan output	H : OFF L : Scan
20	P122	O	KS3	Mechanism switch output (key scan output)	H : OFF L : Scan
21	P121	O	KS2	Key scan output	H : OFF L : Scan
22	P120	O	KS1	Mechanism switch output (key scan output)	H : OFF L : Scan
23	P133	O	KS5	Key scan output	H : OFF L : Scan
24	P132	O	NC	No use (OPEN)	
25	P131	O	DOLBY $\overline{R}$/P	Dolby $\overline{R}$/P selection	H : PLAY L : REC
26	P130	O	NC	No use (OPEN)	
27	P143	O	NC	No use (OPEN)	
28	P142	I	LED 3	LED control	H : ON L : OFF
29	P141	I	LED 2	LED control	H : ON L : OFF
30	P140	I	LED 1	LED control	H : ON L : OFF
31	V_{PP}	—	NC	No use	
32	V_{DD}	—	V_{DD}	Connected to +5 V	H : OFF L : ON
33	P33	O	DECK/$\overline{OTHER}$	Deck mute control	L : ON

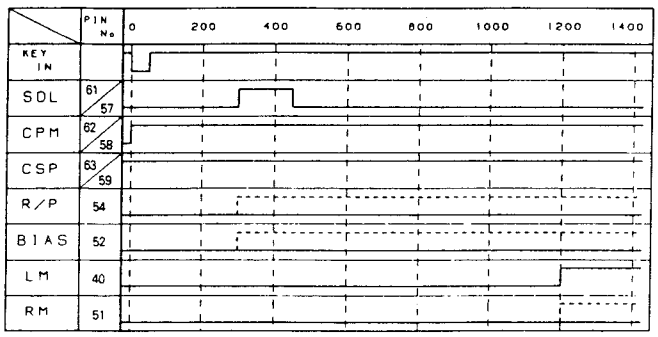
CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Symbol	Function	
34	P32	I/O	DATA	System control signal I/O (DATA)	
35	P31	I/O	BUSY	System control signal I/O (BUSY)	
36	P30	O	SELDA	Selector IC control (A)	
37	P43	O	SELDB	Selector IC control (B)	
38	P42	O	NC	No use	
39	P41	O	SELDC	Selector IC control (C)	
40	P40	O	$\overline{\text{LMUTE}}$	Line mute control	H : OFF L : ON
41	P53	O	DOLBY ON/OFF	DOLBY ON/OFF control	H : ON L : OFF
42	P52	O	VR ST	Electronic volume strobe signal output	
43	P51	O	VR DATA	Electronic volume serial data output	
44	P50	O	VRCLK	Electronic volume serial clock output	
45	$\overline{\text{RESET}}$	I	$\overline{\text{RESET}}$	Reset input	H : Normal L : Reset
46	X2	O	—	Ceramic OSC connection pin	f=4.19 MHz
47	X1	I	—	Ceramic OSC connection pin	f=4.19 MHz
48	P63	O	$\overline{\text{NOR}}$/CrO_2	NOR/CrO_2 selection	L : NORMAL H : CrO_2
49	P62	O	NOR/$\overline{CrO_2}$	NOR/CrO_2 selection	H : NORMAL L : CrO_2
50	P61	O	EQ SPEED	Deck B EQ control	H : High speed L : Normal
51	P61	O	$\overline{\text{BR MUTE}}$	Deck B recording mute control	H : OFF L : ON
52	P73	O	$\overline{\text{B BIAS}}$	Deck B bias ON/OFF	H : OFF L : ON
53	P72	O	NC	No use (OPEN)	
54	P71	O	R/$\overline{P}$	Deck B R/P selection	H : REC L : PLAY
55	P70	O	$\overline{A}$/B	Playback EQ A/B selection	H : B L : A
56	P83	O	NC	No used	
57	P82	O	SOLB	Deck B solenoid control	H : Play or recording L : Others
58	P81	O	CPMB	Deck B capstan motor control	H : ON L : OFF
59	P80	O	CSPB	Deck B capstan motor speed control	H : Normal speed L : High speed
60	P93	O	NC	No used	
61	P92	O	SOLA	Deck A solenoid control	H : ON L : OFF
62	P91	O	CPMA	Deck A capstan motor control	H : ON L : OFF
63	P90	O	CSPA	Deck A capstan motor speed control	H : Normal speed L : High speed
64	Vss	—	Vss	Connected to GND	

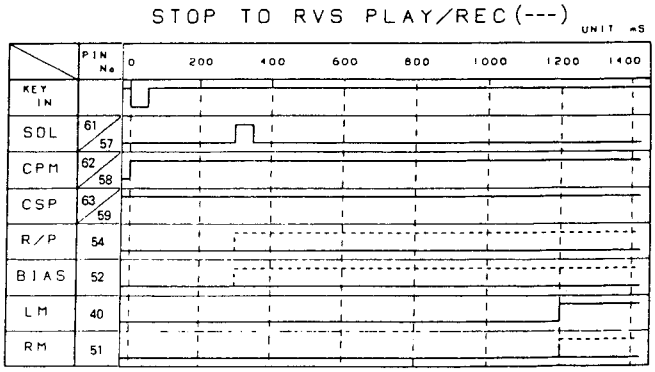
CIRCUIT DESCRIPTION

5-6. Timing chart

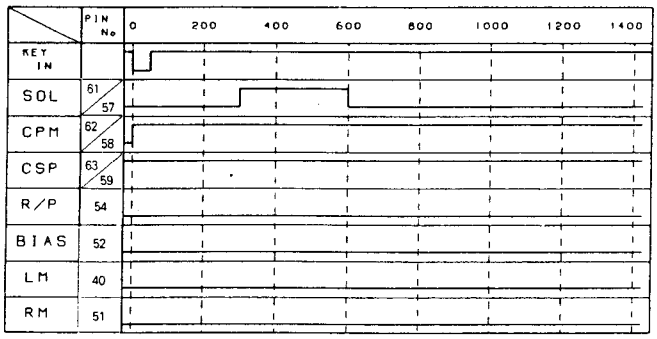
STOP TO FWD PLAY/REC(---)



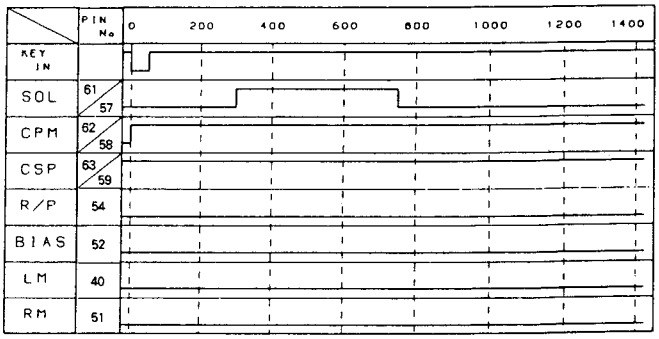
STOP TO RVS PLAY/REC(---)



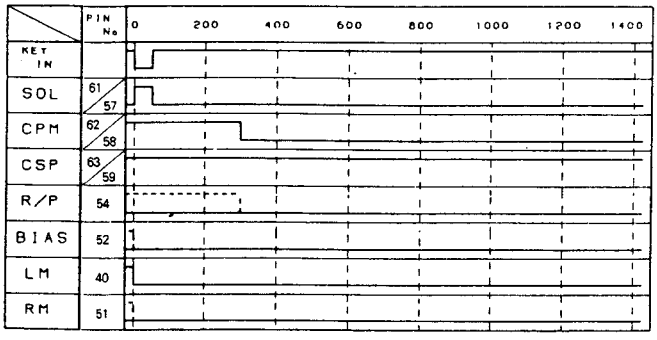
STOP TO FF



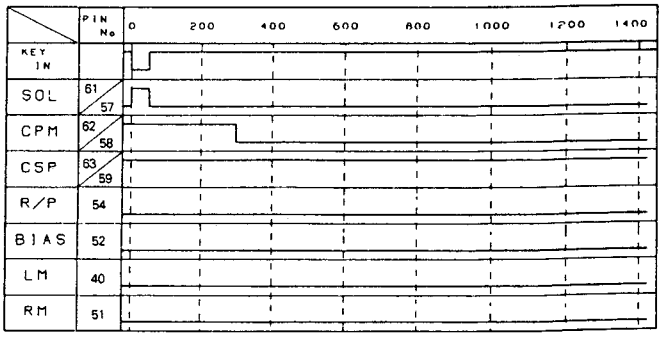
STOP TO RWD



PLAY/REC(---) TO STOP

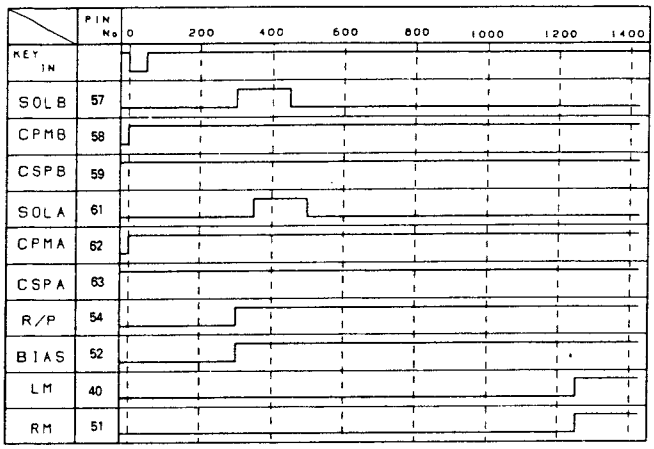


FF/RWD/CUE/RVW TO STOP

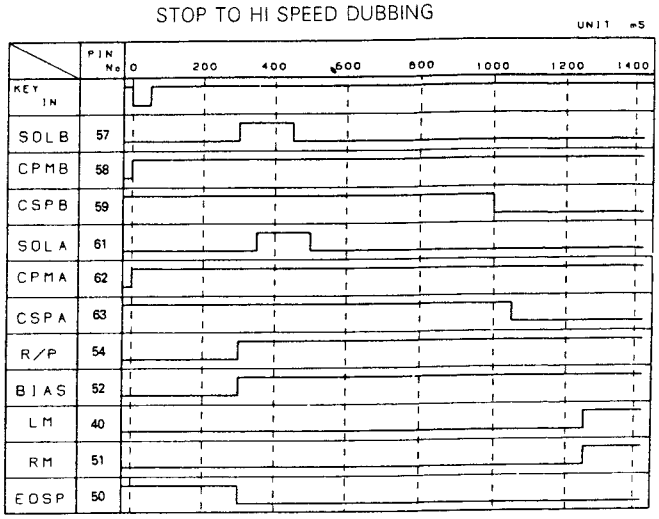


CIRCUIT DESCRIPTION

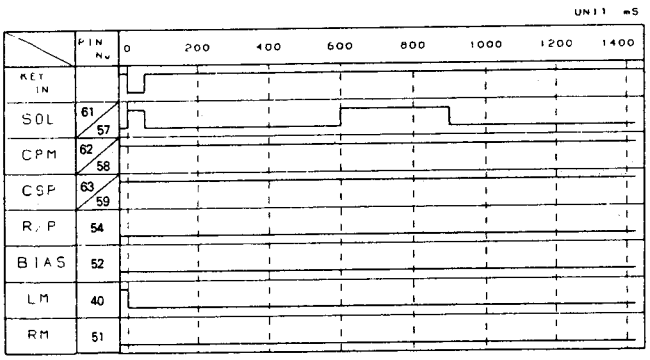
STOP TO NOR SPEED DUBBING



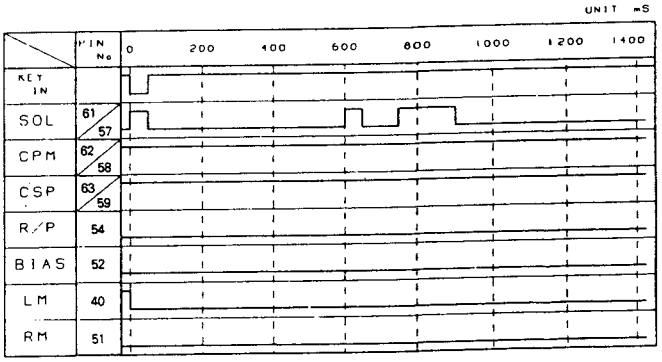
STOP TO HI SPEED DUBBING



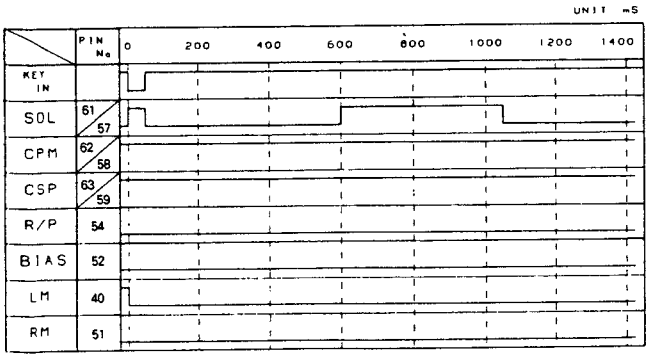
FWD PLAY TO CUE



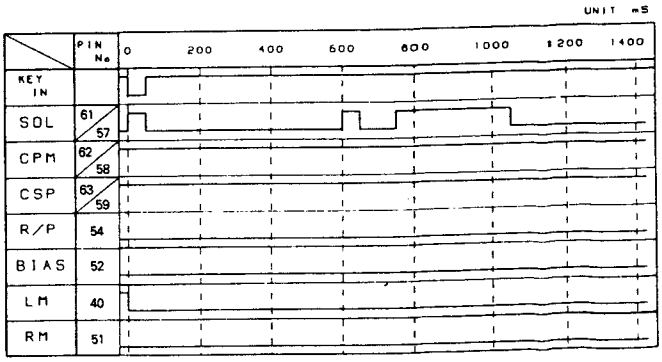
RVS PLAY TO CUE



FWD PLAY TO REVEW



RVS PLAY TO REVEW

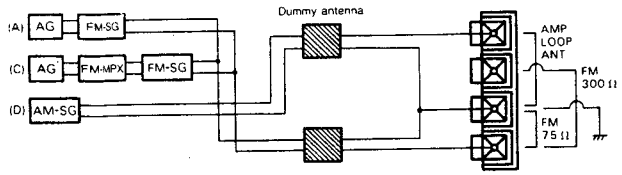


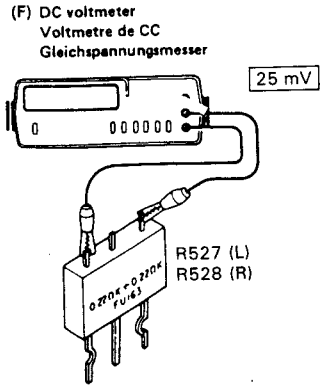
KRX-593/793

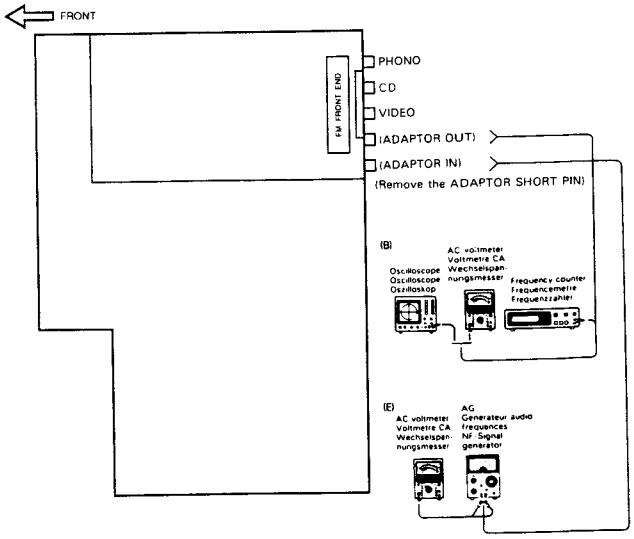
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION (PCB-TUNER)			SELECTOR: FM				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter to TP1.	AUTO or MONO 98.0MHz	L103	0V±20mV	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector:L or R Pilot:±6.75kHz dev 60dBμ(ANT input)	(B)	AUTO 98.0MHz	T171 (FRONTEND ;Z101)	Minimum distortion.(L or R)	
3	TUNING LEVEL	(A) 98.0MHz 0dev 18dBμ(ANT input)	(B)	AUTO or MONO 98.0MHz	R127	Adjust R127 and stop at the point where "TUNED" display of Z701(PCB-DISPLAY) goes on.	
AM SECTION (PCB-TUNER)			SELECTOR: AM				
(1)	OSC	(D) 530(531)kHz	Connect a DC voltmeter between TP2 and GND.	530(531)kHz	L102	1.2V±50mV	(b)
(2)	SENSITIVITY	(D) 600(603)kHz	(B)	600(603)kHz	L101	Maximum output	
(3)	TUNING LEVEL	(D) 1000(999)kHz 26dBμ(ANT input)	(B)	1000(999)kHz	R126	Adjust R126 and stop at the point "TUNED" display of Z701(PCB-DISPLAY) goes on.	
AUDIO SECTION (PCB-MAIN)							
<1>	IDLE CURRENT	–	(F) Connect a DC voltmeter across R527(L) R528(R)	volume:0	V501(L) V502(R)	25mV	(C)

Connection





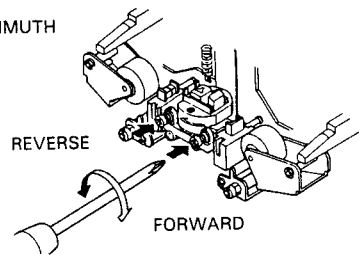


MC-Service

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE:NORMAL, DOLBY:OFF, INPUT:CD				0dBs=0.775V	
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	–	–	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	–	–	PLAY	REC/PLAY head, erase head, capstan, and pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	AZIMUTH	TCC-153 MTT-114N 10kHz,-10dB	(B)	PLAY	Azimuth adjustment screw	Maximum output.	(d)
II PC BOARD (PCB-REC/PLAYBACK)							
(1)	TAPE SPEED (HI SPEED)	TCC-110 MTT-111N 3kHz	(B)	Connect between TP4(GND) and TP5(A) or TP6(B). PLAY	DECK A: VR903 DECK B: VR901	Adjust the tape speed so that a 6kHz signal is produced at the center of the tape.	
(2)	TAPE SPEED (NORMAL)	TCC-110 MTT-111N 3kHz	(B)	PLAY	DECK A: VR904 DECK B: VR902	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	
III PC BOARD (PCB-REC/PLAYBACK)							
<1>	PLAYBACK LEVEL	MTT-150 400Hz	(B)	PLAY	DECK A: VR301(L) VR302(R) DECK B: VR303(L) VR304(R)	Output level: -6.0dBs	
		MTT-212CN 315Hz				Output level: -9.0dBs	
<2>	BIAS CURRENT	(E) 1kHz,-29dBs 10kHz,-29dBs	(B)	The monitor output becomes -29dBs at 1kHz, then record and playback signal of 1kHz and 10kHz in alternation.	VR801(L) VR802(R)	Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	
<3>	RECORD LEVEL	(E) 1kHz,-9dBs	(B)	Record playback a 1kHz signal under the conditions set in <2>.	VR305(L) VR306(R)	Adjust the variable resistors so that a playback level of -9dBs is obtained.	

(d) AZIMUTH

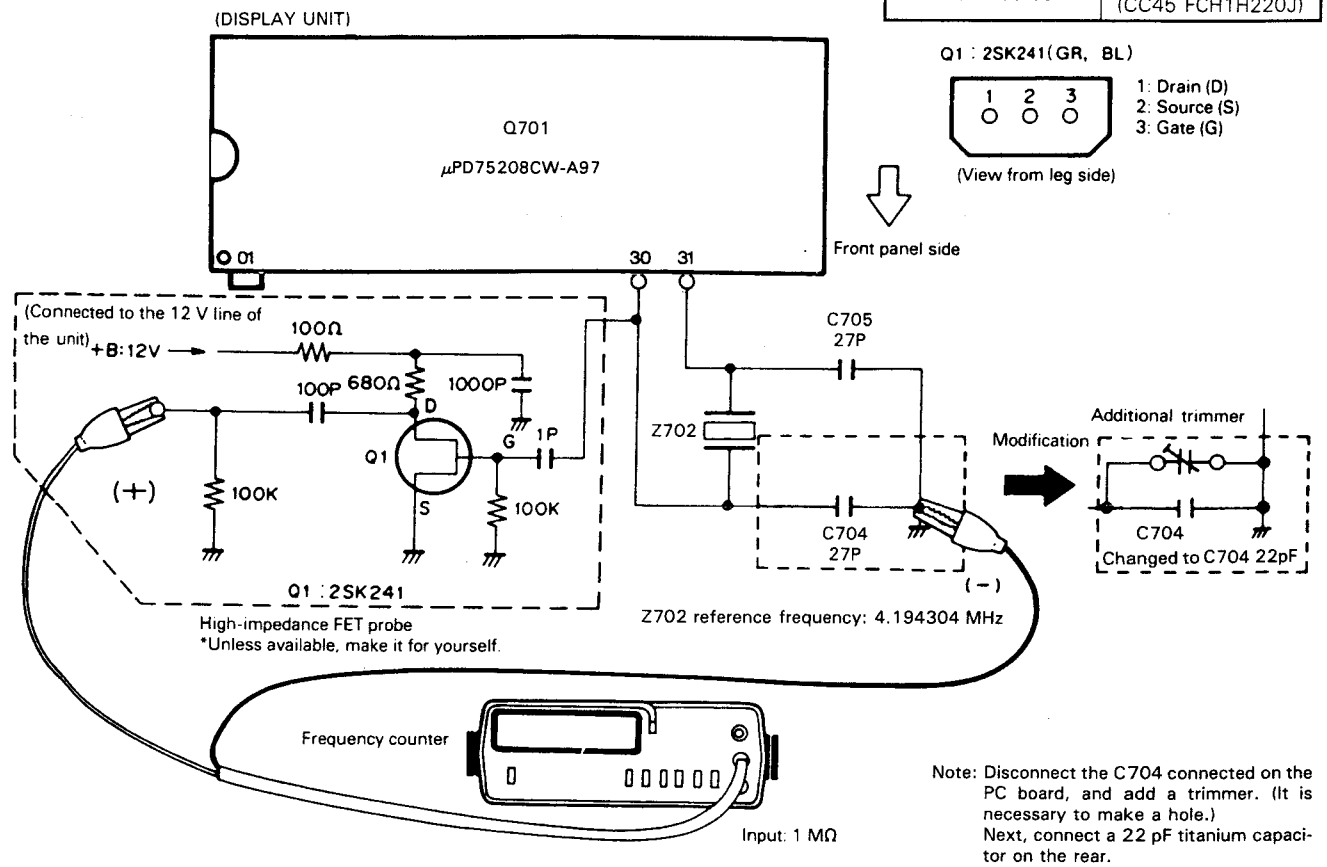


ADJUSTMENT

SERVICE POINT

1. Timer accuracy improvement method:

Capacitance value of additional trimmer	C704 constant modification
20 pF (red) C05-0303-05	22 pF titanium capacitor (CC45 FCH1H220J)



Note: Disconnect the C704 connected on the PC board, and add a trimmer. (It is necessary to make a hole.) Next, connect a 22 pF titanium capacitor on the rear.

The timer accuracy is within ±40 seconds for one month as a standard. For improved timer accuracy, perform the following procedure:

(1) If the timer accuracy is without the standard, replace Z702 (L77-1176-05) near the microprocessor IC on a printed board.

(2) Even if within the standard, for further improved accuracy, change the constant of C704 in the crystal oscillation circuit of microprocessor Q701 and add a trimmer.

Adjustment method (Use a high-impedance buffer to avoid frequency deviation.)

Connect a high-accuracy frequency counter to pin 30 by way of the FET probe shown above, and adjust the frequency fully up to the first digit of the Z702 reference frequency 4,194,304 Hz. (Connect the negative (−) side of the frequency counter to the GND side of C704.)

Notes: 1. As regards the positive (+) side of the frequency counter, arrange as short a distance as possible between pin 30 of Q701 and 1P of the input stage of the FET probe.

2. Perform the trimmer adjustment after energization of around 10 minutes at normal temperature.

(3) Monthly error calculation method

For example, when the result of measurement at pin 30 by the frequency counter is fx = 4,194,275 Hz...

$$\text{Monthly error [sec]} = \frac{fx - fo}{fo} \times \text{the number of seconds taken for one month}$$

$$= \frac{4,194,275 - 4,194,304}{4,194,304} \times (60 \times 60 \times 24 \times 30)$$

$$= -17.9 \text{ [sec]}$$

* A minus value as the monthly error means a loss.

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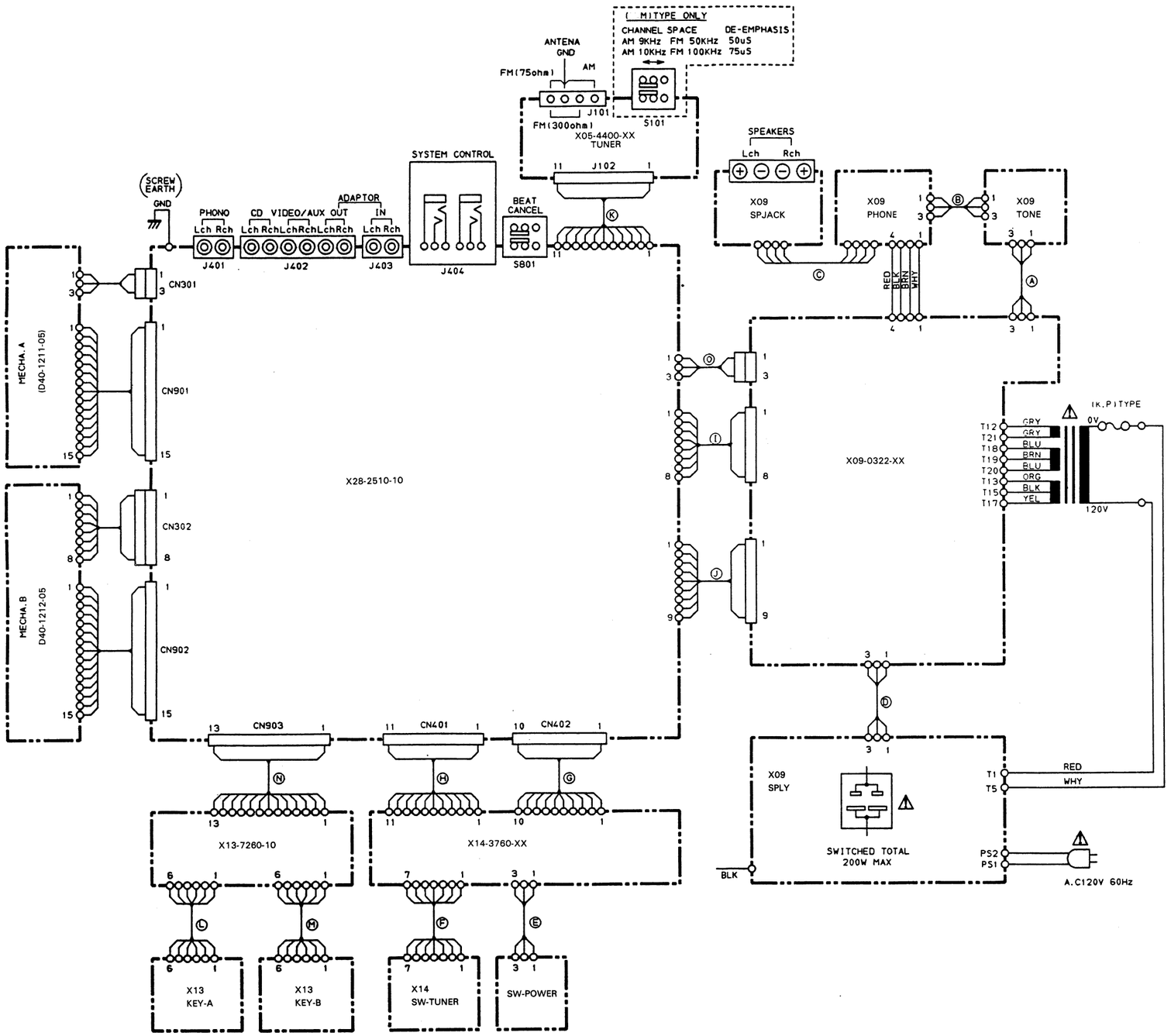
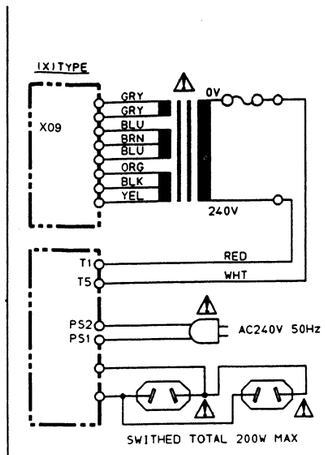
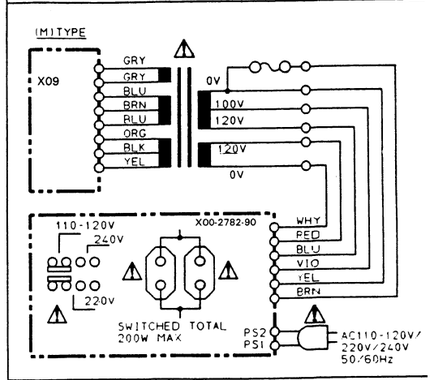
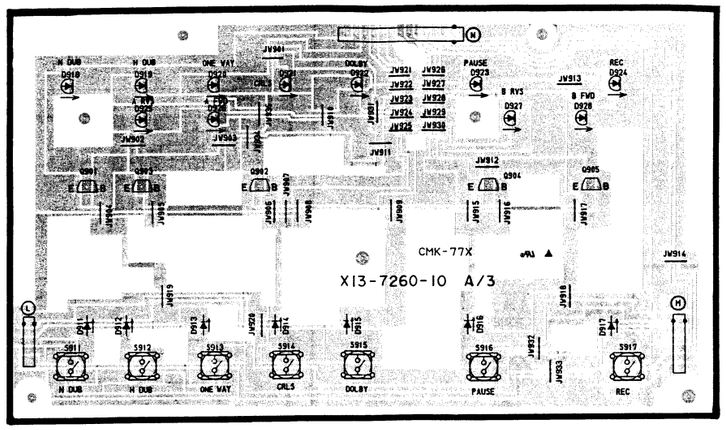
WIRING DIAGRAM

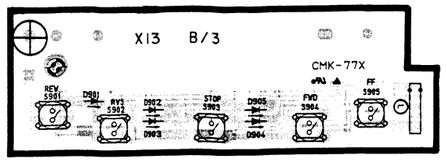


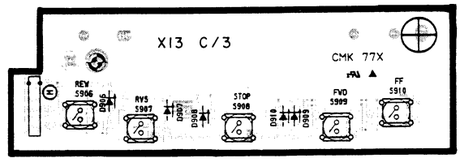


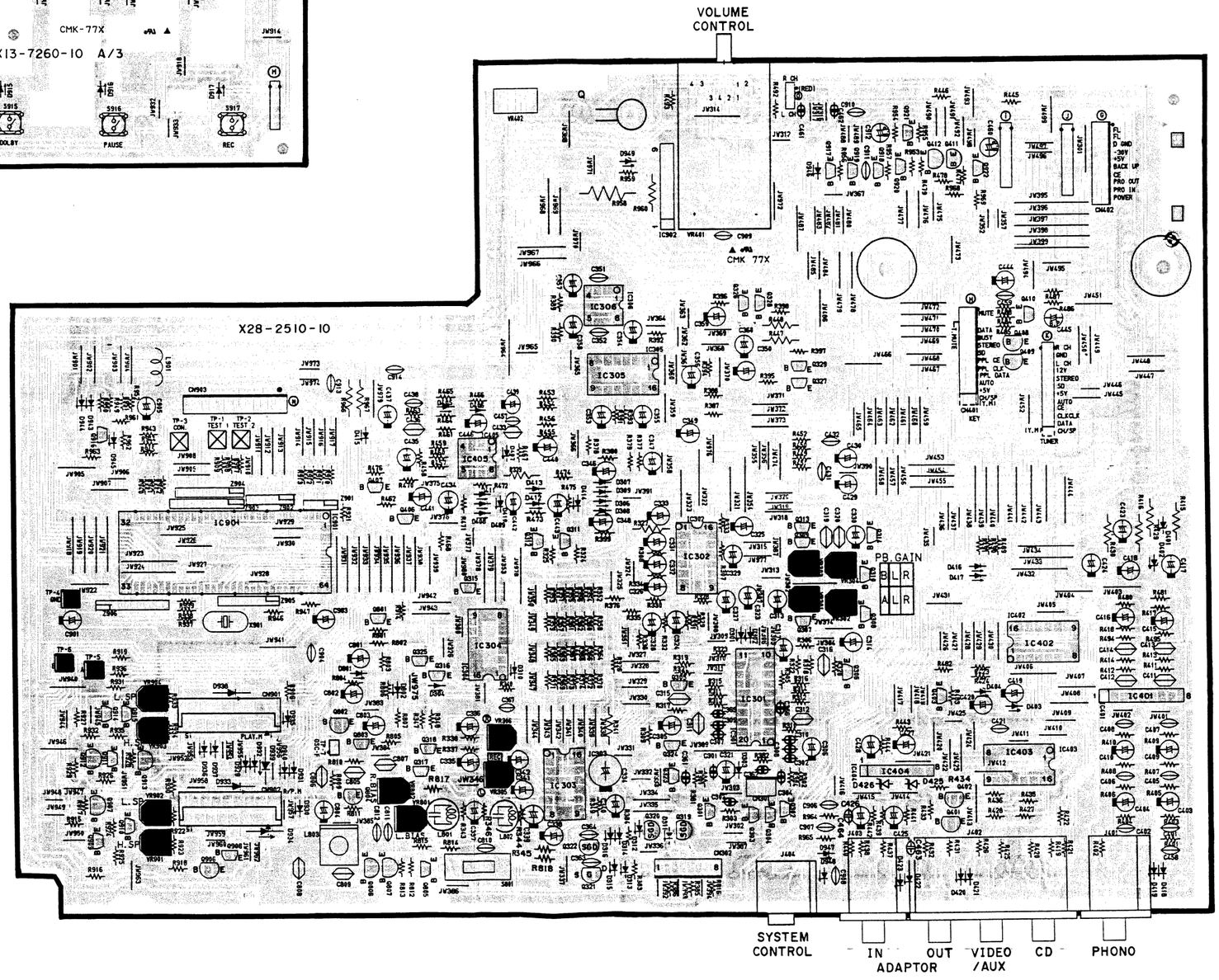


PC BOARD (Component side view)



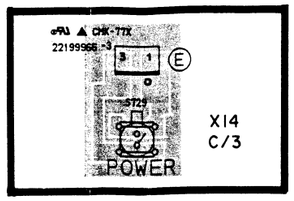


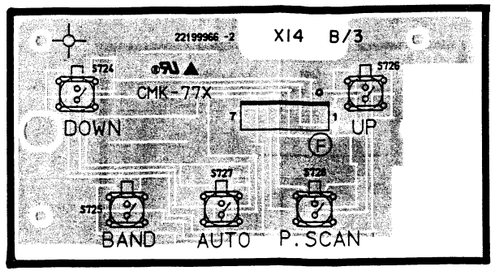


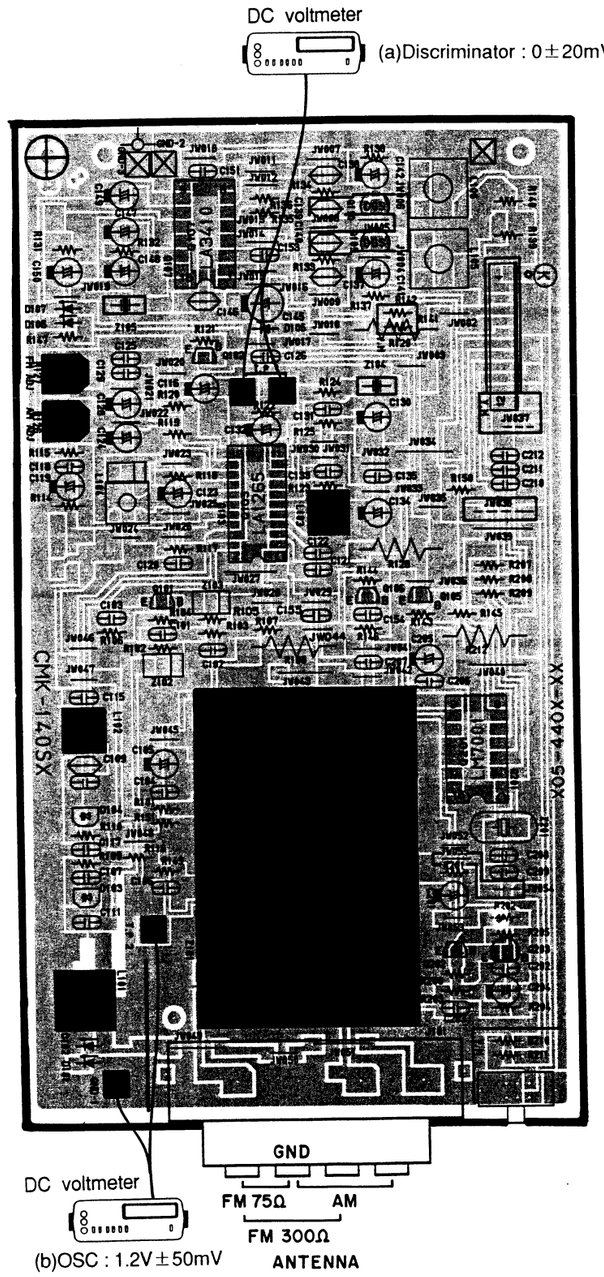


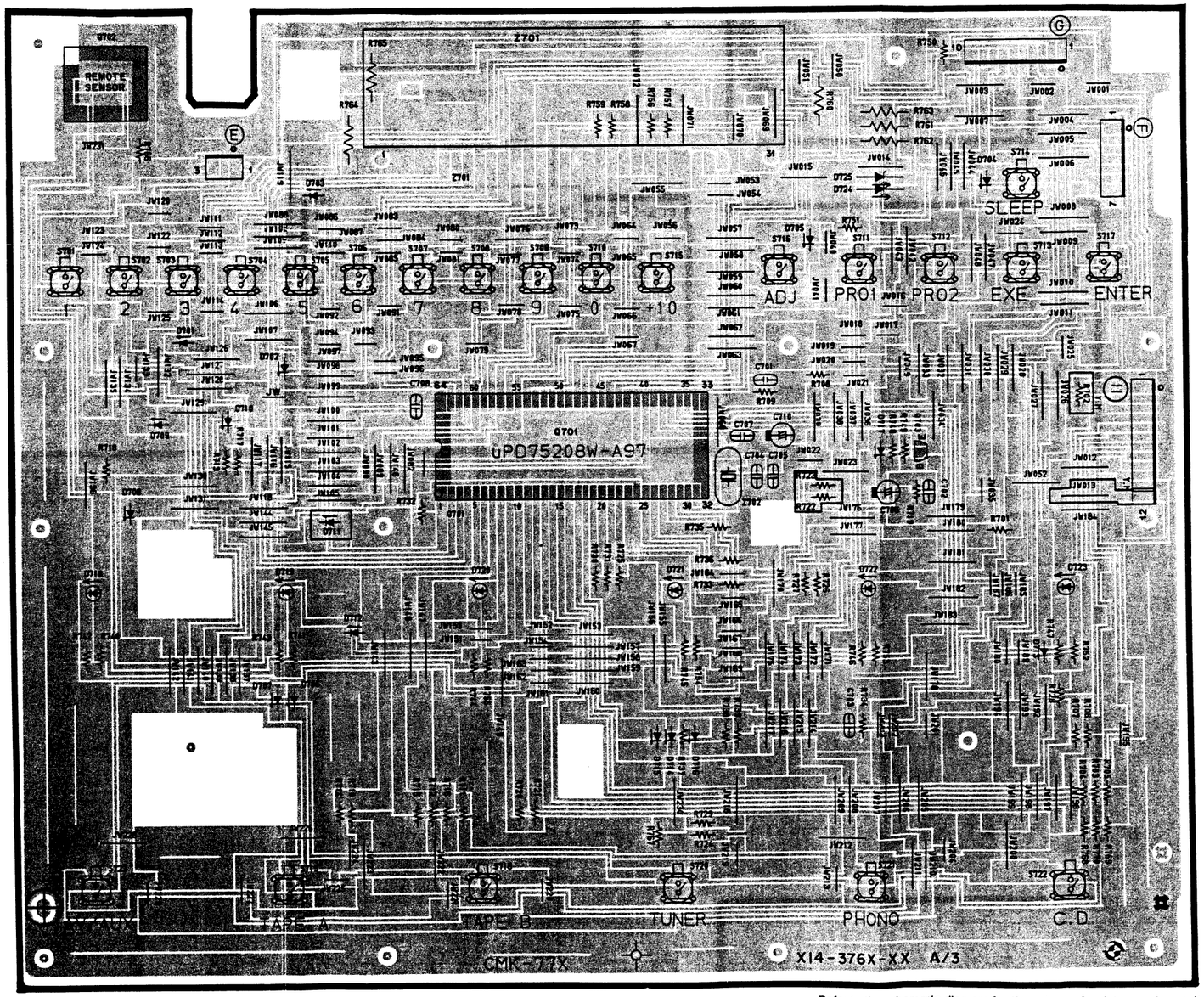
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)









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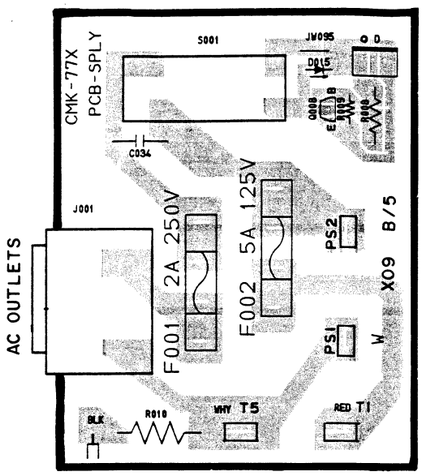
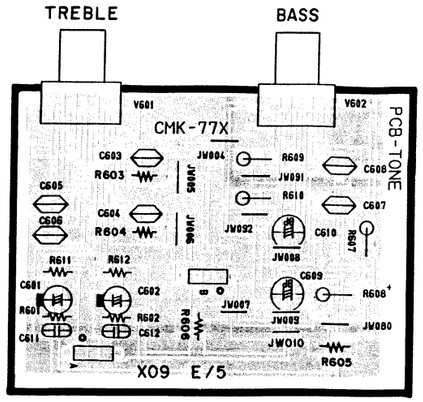
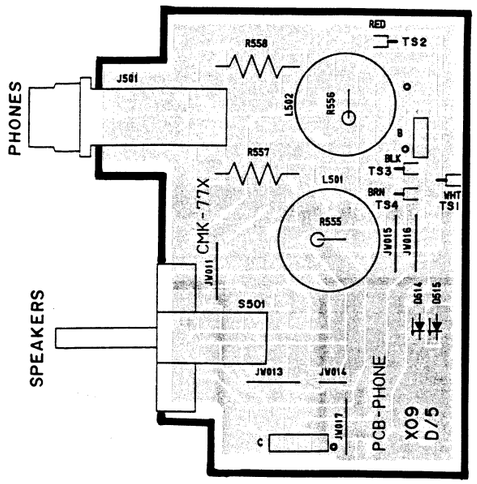
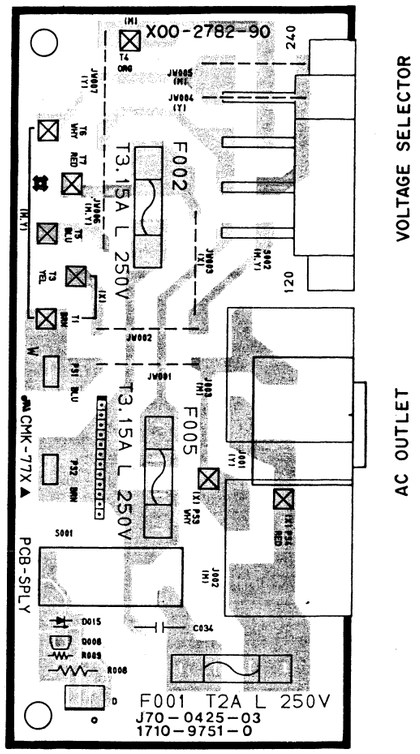
Refer to the schematic diagram for the values of resistors and capacitors.

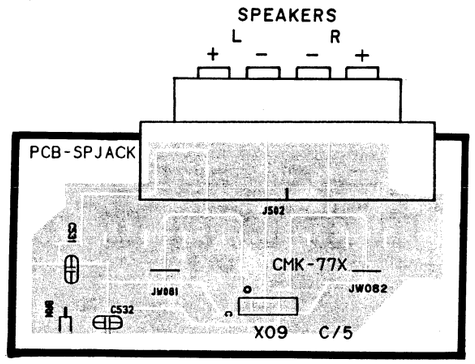
PC BOARD (Component side view)

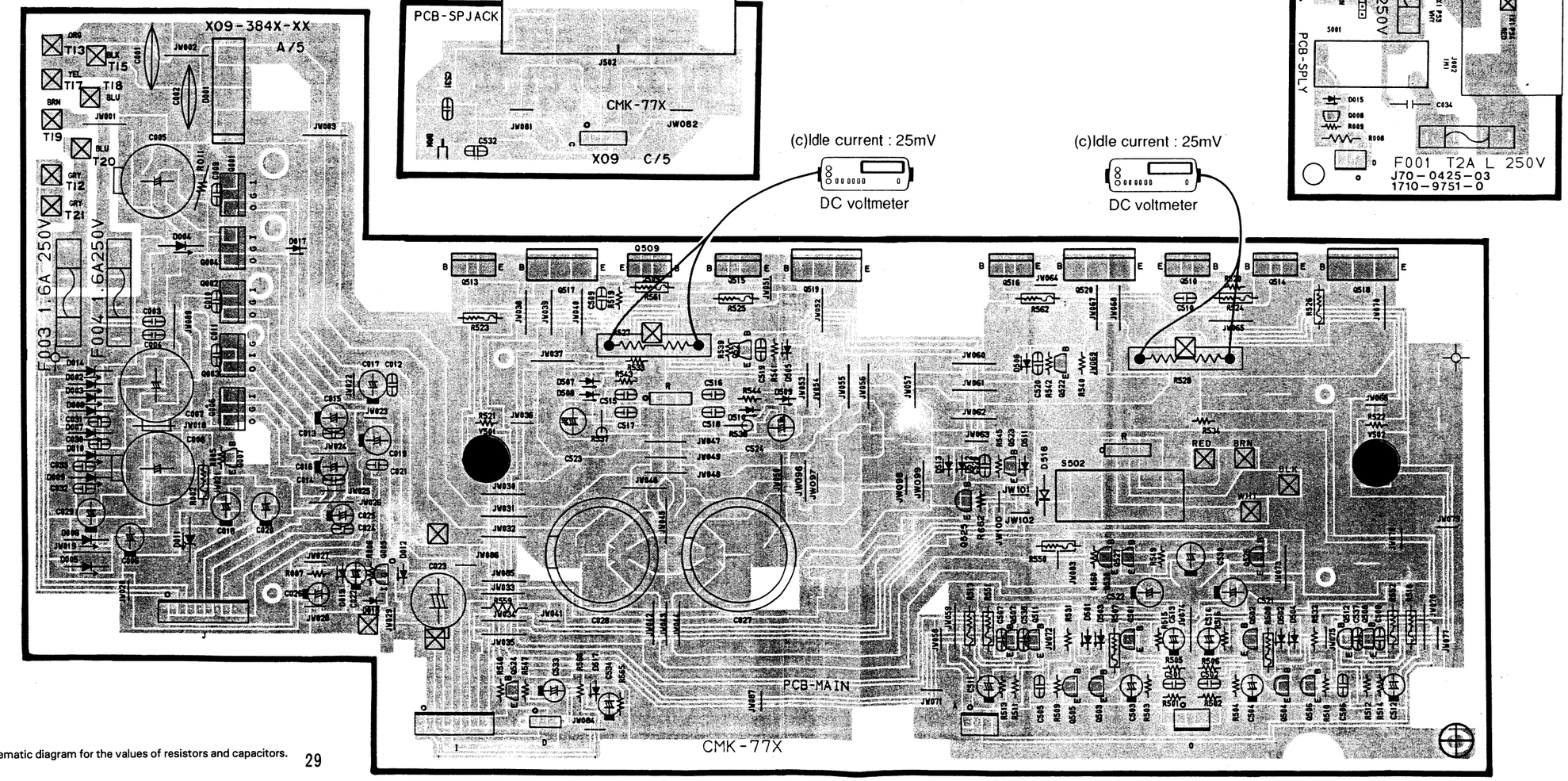




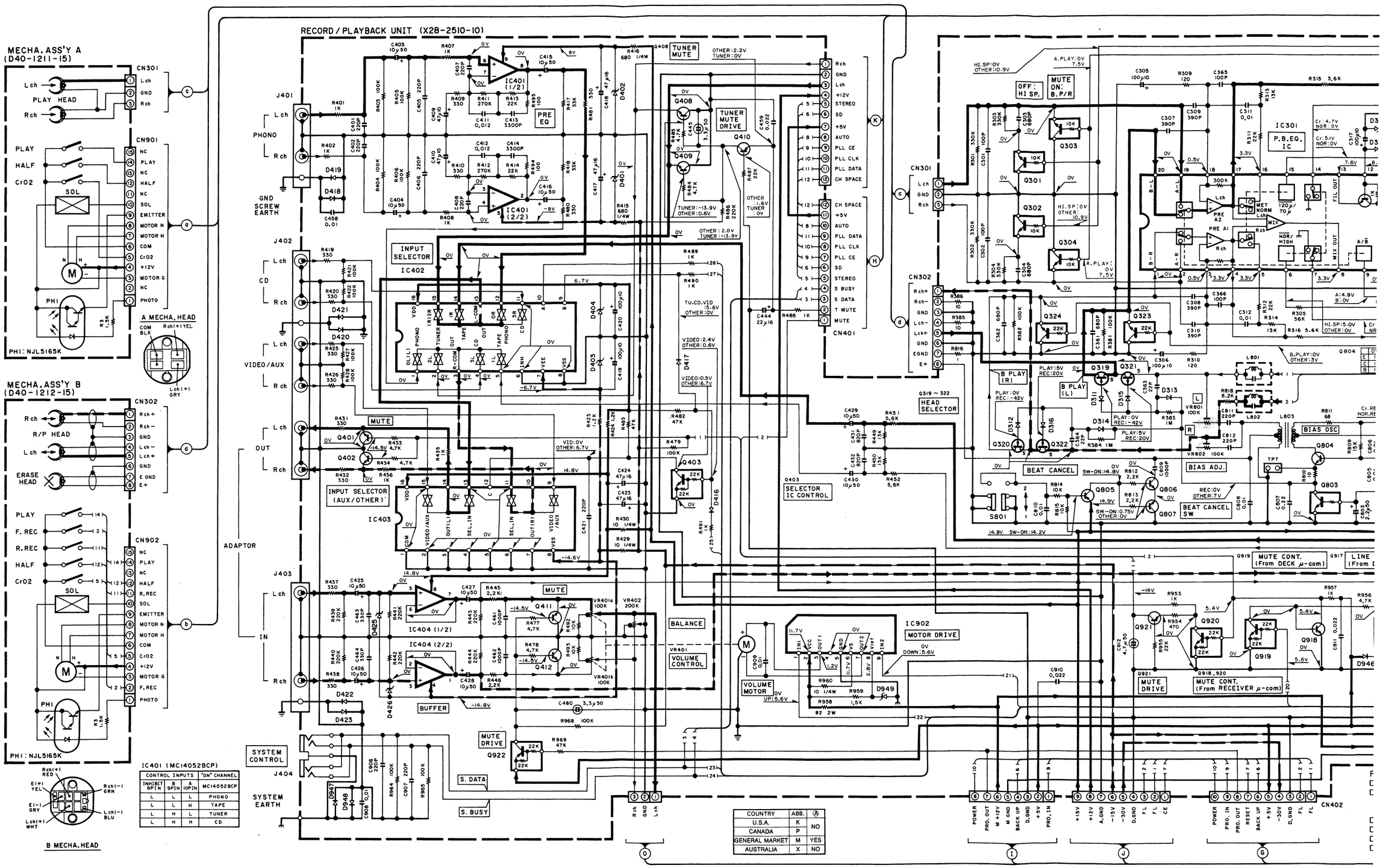




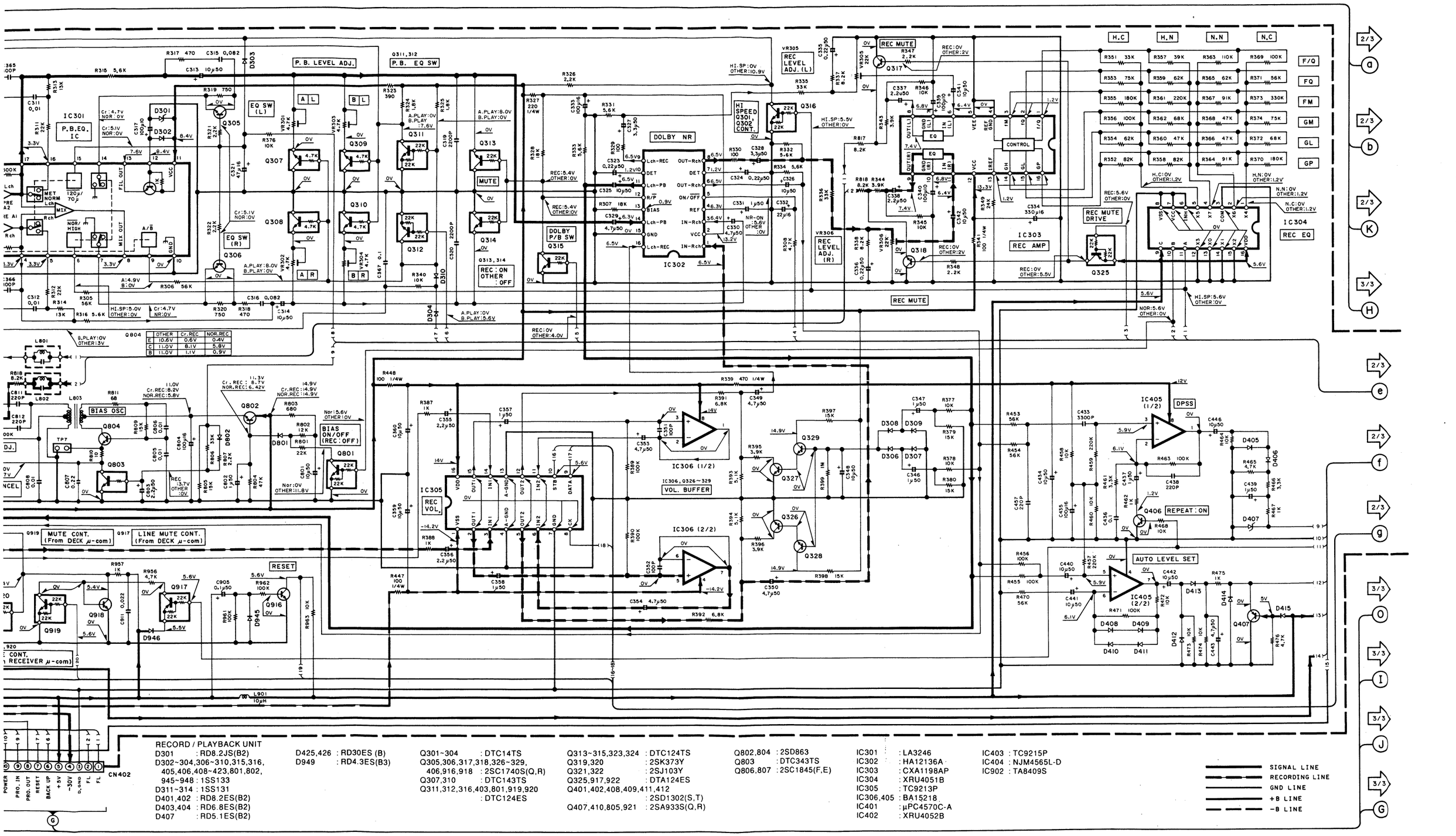




Refer to the schematic diagram for the values of resistors and capacitors.



DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).



RECORD / PLAYBACK UNIT

D301 : RD8.2JS(B2)
D302~304,306~310,315,316, 405,406,408~423,801,802, 945~948 : 1SS133
D311~314 : 1SS131
D401,402 : RD8.2ES(B2)
D403,404 : RD6.8ES(B2)
D407 : RD5.1ES(B2)

D425,426 : RD30ES (B)
D949 : RD4.3ES(B3)

Q301~304 : DTC14TS
Q305,306,317,318,326~329, 406,916,918 : 2SC1740S(Q,R)
Q307,310 : DTC143TS
Q311,312,316,403,801,919,920 : DTC124ES

Q313~315,323,324 : DTC124TS
Q319,320 : 2SK373Y
Q321,322 : 2SJ103Y
Q325,917,922 : DTA124ES
Q401,402,408,409,411,412 : 2SD1302(S,T)
Q407,410,805,921 : 2SA933S(Q,R)

Q802,804 : 2SD863
Q803 : DTC343TS
Q806,807 : 2SC1845(F,E)

IC301 : LA3246
IC302 : HA12136A
IC303 : CXA1198AP
IC304 : XRU4051B
IC305 : TC9213P
IC306,405 : BA15218
IC401 : μPC4570C-A
IC402 : XRU4052B

IC403 : TC9215P
IC404 : NJM4565L-D
IC902 : TA8409S

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

MC-Service

Y09-4270-10 1/3

KRX-593/793

KENWOOD

TUNER UNIT

COUNTRY	ABB.	Ⓐ, Ⓑ	
U.S.A.	K	NO	1
CANADA	P		
GENERAL MARKET	M	YES	1
AUSTRALIA	X	NO	1

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

TUNER UNIT (X05-440X-XX)

FM FRONT-END Z101 (W02-1162-05)

FM FRONT-END

Q171	: 2SK439
Q172,173	: 2SC3391
	or 2SC535
Q174	: 2SC3494
D171~173	: ISV110

TUNER UNIT(X05-)

D101,102,105~107	: 1SS133
D103,104	: SVC321-2
Q101	: 2SC1923(R,O)
Q102,202	: 2SC1740S(Q,R)
Q103	: LA1265
Q105,106	: 2SA933S(Q,R)
Q107	: LA3410
Q109,110	: 2SK246(Y)
Q201	: LM7001
Q203	: 2SC1845(F,E)

CN901

15	NC
14	PLAY
13	NC
12	HALF
11	NC
10	SOL
9	EMITTER
8	MOTOR N
7	MOTOR H
6	COM
5	CrO2
4	+12V
3	MOTOR G
2	NC
1	PHOTO

CN902

15	NC
14	PLAY
13	NC
12	HALF
11	R.REC
10	SOL
9	EMITTER
8	MOTOR N
7	MOTOR H
6	COM
5	CrO2
4	+12V
3	MOTOR G
2	F.REC
1	PHOTO

TUNER UNIT

COUNTRY	ABB.	Ⓐ, Ⓑ	J102	R122	R133, 134	C137, 138
U.S.A.	K	NO	11PIN	22K	160K	470P
CANADA	P					
GENERAL MARKET	M	YES	12PIN	27K	150K	330P
AUSTRALIA	X	NO	11PIN	22K	150K	330P

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

KRX-593/793

KENWOOD

MC-Service

SIGNAL LINE
GND LINE
+B LINE
−B LINE

DISPLAY UNIT

COUNTRY	ABB.	CN401	D711	R702	R722
U.S.A.	K	11PIN	YES	NO	YES
CANADA	P				
GENERAL MARKET	M	12PIN	NO	YES	YES

DISPLAY UNIT (X14-)
D701~717 : 1SS133
D718~723 : B30-2457-05 (SLP-138B-51)
D724,725 : RD8.2ES(B2)

Q701 : μPD75208CW-B49
Q702 : W02-1153-05
Q703 : 2SC1740S(Q,R)

Z701 : CF1155C

DISPLAY UNIT(X14-3760-XX)(A/3)

REMOTE SENSOR Q702 (GND OUT VCC)

Z701 FL DISPLAY

RECEIVER μ-COM Q701

RESET Q703

Z702 4.194304 MHz

CN402 (POWER, PRO. IN, PRO. OUT, RESET, BACK UP, +5V DC, −30V DC, D GND, FILAMENT, FILAMENT)

DISPLAY UNIT(X14-)(B/3)

DISPLAY UNIT(X14-)(C/3)

AUDIO UNIT(X09-3840-XX)(A/5)

A,B VOLTAGE

	KRX-593	KRX-793
A	43.0V	57.6V
B	−43.0V	−57.6V

2SA1124 2SC2003
2SA992 2SC2632
2SB764 2SC3244
2SC1845 2SD1302
2SC1923 2SD863

DTC124TS DTA115TS
DTC143TS DTA124ES
DTC343TS DTA143TS
2SA933S DTC114TS
2SC1740S DTC124ES

2SC4137

2SB1163
2SD1718

2SA1535
2SC3944

BA15218

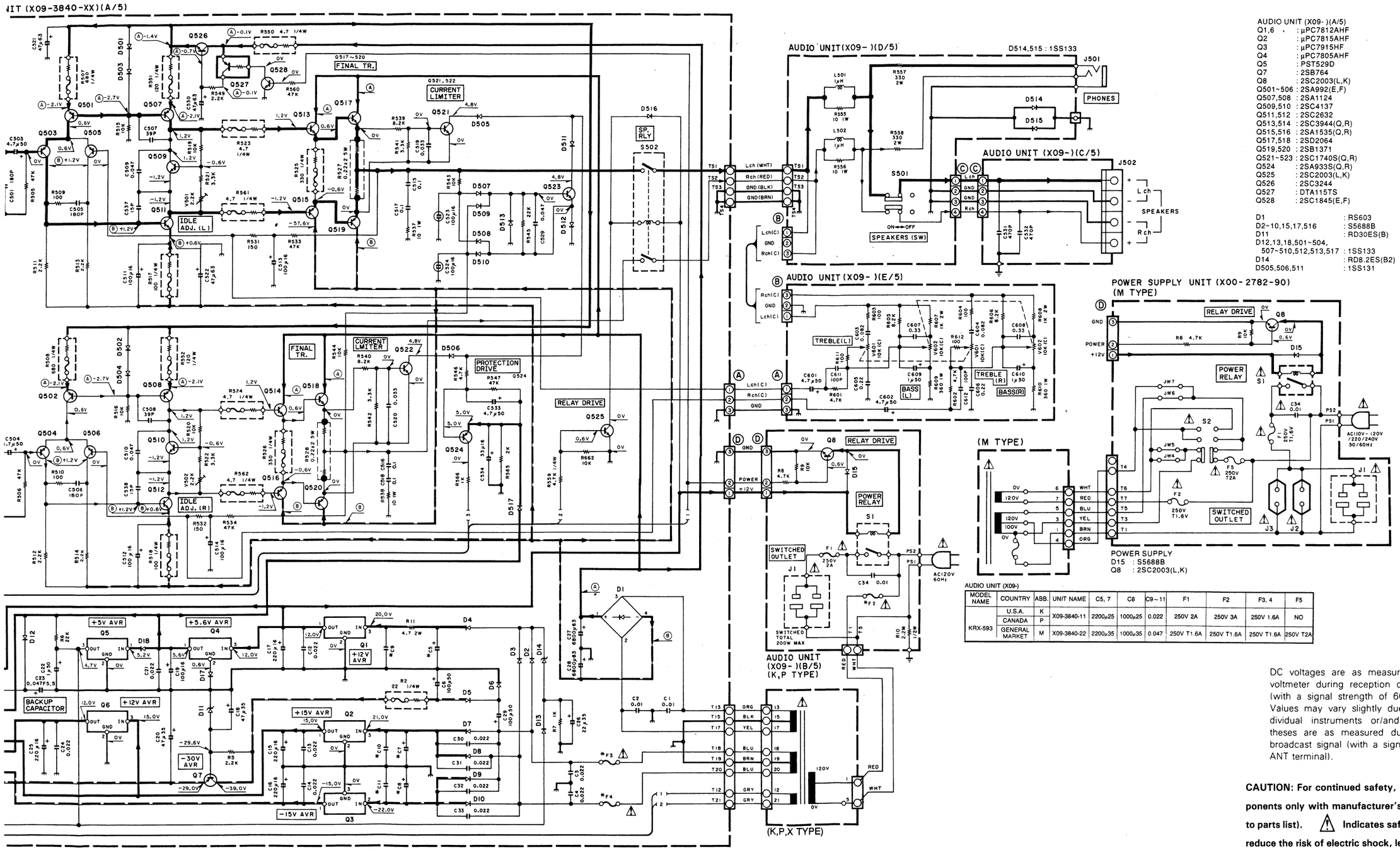
CXA1198AP
LA3410
XRU4051B
XRU4052B

LM7001

HA12136A
TC9213P
TC9215P

TA8409S

LA3246



AUDIO UNIT (X09-)(A/5)

Q1,6	: μPC7812AHF
Q2	: μPC7815AHF
Q3	: μPC7915HF
Q4	: μPC7805AHF
Q5	: PST529D
Q7	: 2SB764
Q8	: 2SC2003(L,K)
Q501~506	: 2SA992(E,F)
Q507,508	: 2SA1124
Q509,510	: 2SC4137
Q511,512	: 2SC2632
Q513,514	: 2SC3944(Q,R)
Q515,516	: 2SA1535(Q,R)
Q517,518	: 2SD2064
Q519,520	: 2SB1371
Q521~523	: 2SC1740S(Q,R)
Q524	: 2SA933S(Q,R)
Q525	: 2SC2003(L,K)
Q526	: 2SC3244
Q527	: DTA115TS
Q528	: 2SC1845(E,F)

D1	: RS603
D2~10,15,17,516	: S5688B
D11	: RD30ES(B)
D12,13,18,501~504, 507~510,512,513,517	: 1SS133
D14	: RD8.2ES(B2)
D505,506,511	: 1SS131

AUDIO UNIT (X09-)

MODEL NAME	COUNTRY	ABB.	UNIT NAME	C5, 7	C8	C9~11	F1	F2	F3, 4	F5
KRX-593	U.S.A.	K	X09-3840-11	2200μ25	1000μ25	0.022	250V 2A	250V 3A	250V 1.6A	NO
	CANADA	P								
	GENERAL MARKET	M	X09-3840-22	2200μ35	1000μ35	0.047	250V T1.6A	250V T1.6A	250V T1.6A	250V T2A

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

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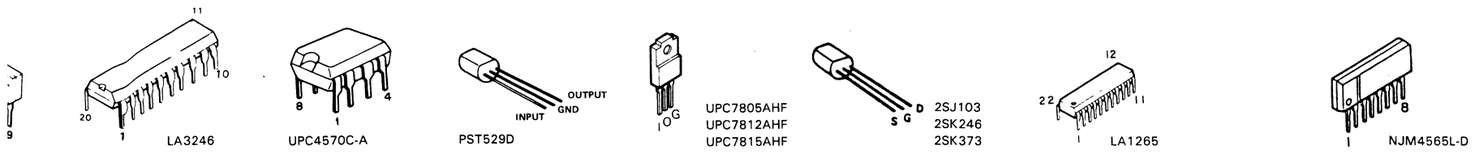

MC-Service

KRX-593

KENWOOD

SIGNAL LINE
GND LINE
+B LINE
−B LINE

DISPLAY UNIT

COUNTRY	ABB.	CN401	D711	R702	R722
U.S.A.	K	11PIN	YES	NO	YES
CANADA	P				
GENERAL MARKET	M	12PIN	NO	YES	YES
AUSTRALIA	X	11PIN	NO	NO	NO

DISPLAY UNIT (X14-)
D701~717 : 1SS133
D718~723 : B30-2457-05 (SLP-138B-51)
D724,725 : RD8.2ES(B2)

Q701 : μPD75208CW-B49
Q702 : W02-1153-05
Q703 : 2SC1740S(Q,R)

Z701 : CF1155C

DISPLAY UNIT(X14-3760-XX)(A/3)

REMOTE SENSOR Q702

Z701 FL DISPLAY

RECEIVER μ-COM Q701

RESET Q703

DISPLAY UNIT(X14-)(B/3)

DISPLAY UNIT(X14-)(C/3)

AUDIO UNIT (X09-3840-XX)(A/5)

A B VOLTAGE

	KRX-593	KRX-793
A	43.0V	57.6V
B	−43.0V	−57.6V

2SA1124 2SC2003
2SA992 2SC2632
2SB764 2SC3244
2SC1845 2SC3246
2SC1923 2SD1302
2SD863

DTC124TS DTA115TS
DTC143TS DTA124ES
DTC343TS DTA143TS
2SA933S DTC114TS
2SC1740S DTC124ES

2SC4137

2SB1163
2SD1718

2SA1535
2SC3944

BA15218

CXA1198AP
LA3410
XRU4051B
XRU4052B

LM7001

HA12136A
TC9213P
TC9215P

TA8409S

LA3246

r (X09-3840-XX)(A/5)

AUDIO UNIT (X09-)(A/5)
Q1,6 : μPC7812AHF
Q2 : μPC7815AHF
Q3 : μPC7915HF
Q4 : μPC7805AHF
Q5 : PST529D
Q7 : 2SB764
Q8 : 2SC2003(L,K)
Q501~506 : 2SA992(E,F)
Q507,508 : 2SA1124
Q509,510 : 2SC4137
Q511,512 : 2SC2632
Q513,514 : 2SC3944(Q,R)
Q515,516 : 2SA1535(Q,R)
Q517,518 : 2SD1718
Q519,520 : 2SB1163
Q521~523 : 2SC1740S(Q,R)
Q524 : 2SA933S(Q,R)
Q525 : 2SC2003(L,K)
Q526 : 2SC3244
Q527 : DTA115TS
Q528 : 2SC1845(E,F)

D1 : RS603
D2~10,15,17,516 : S5688B
D11 : RD30ES(B)
D12,13,18,501~504, 507~510,512,513,517 : 1SS133
D14 : RD8.2ES(B2)
D505,506,511 : 1SS131

AUDIO UNIT (X09-)(D/5)
D514,515 : 1SS133

AUDIO UNIT (X09-)(C/5)

AUDIO UNIT (X09-)(E/5)

POWER SUPPLY UNIT (X00-2782-90) (M TYPE)

(M TYPE)

POWER SUPPLY
D15 : S5688B
Q8 : 2SC2003(L,K)

AUDIO UNIT (X09-)(B/5) (K,P TYPE)

AUDIO UNIT (X09-)(B/5) (X TYPE)

D15 : S5688B
Q008 : 2SC1741

AUDIO UNIT (X09-)

MODEL NAME	COUNTRY	ABB.	UNIT NAME	C5, 7	C8	C9~11	F1	F2	F3, 4	F5
KRX-793	U.S.A.	K	X09-3840-10	2200μ25	1000μ25	0.022	250V 2A	250V 5A	250V 1.6A	NO
	CANADA	P								
	GENERAL MARKET	M	X09-3840-21	2200μ35	1000μ35	0.047	250V T3.15A	250V T3.15A	250V T1.6A	250V T2A
	AUSTRALIA	X	X09-3840-71	NO	NO	NO	250V T3.15A	250V T3.15A	NO	250V T2A

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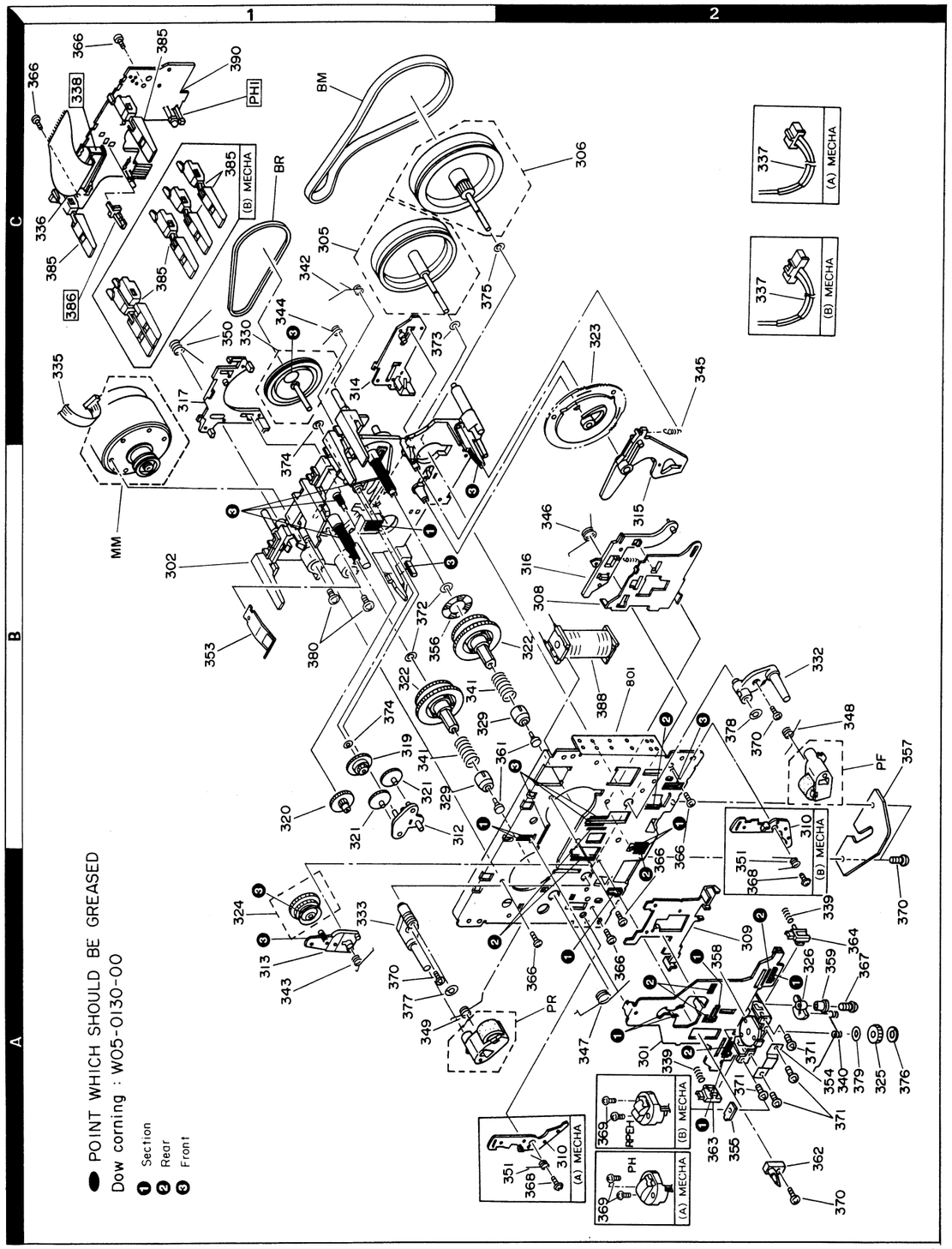
LA3246 UPC4570C-A PST529D UPC7805AHF UPC7812AHF UPC7815AHF 2SJ103 2SK246 2SK373 LA1265 NJM4565L-D

Y09-4270-10 3/3

KRX-793

KENWOOD

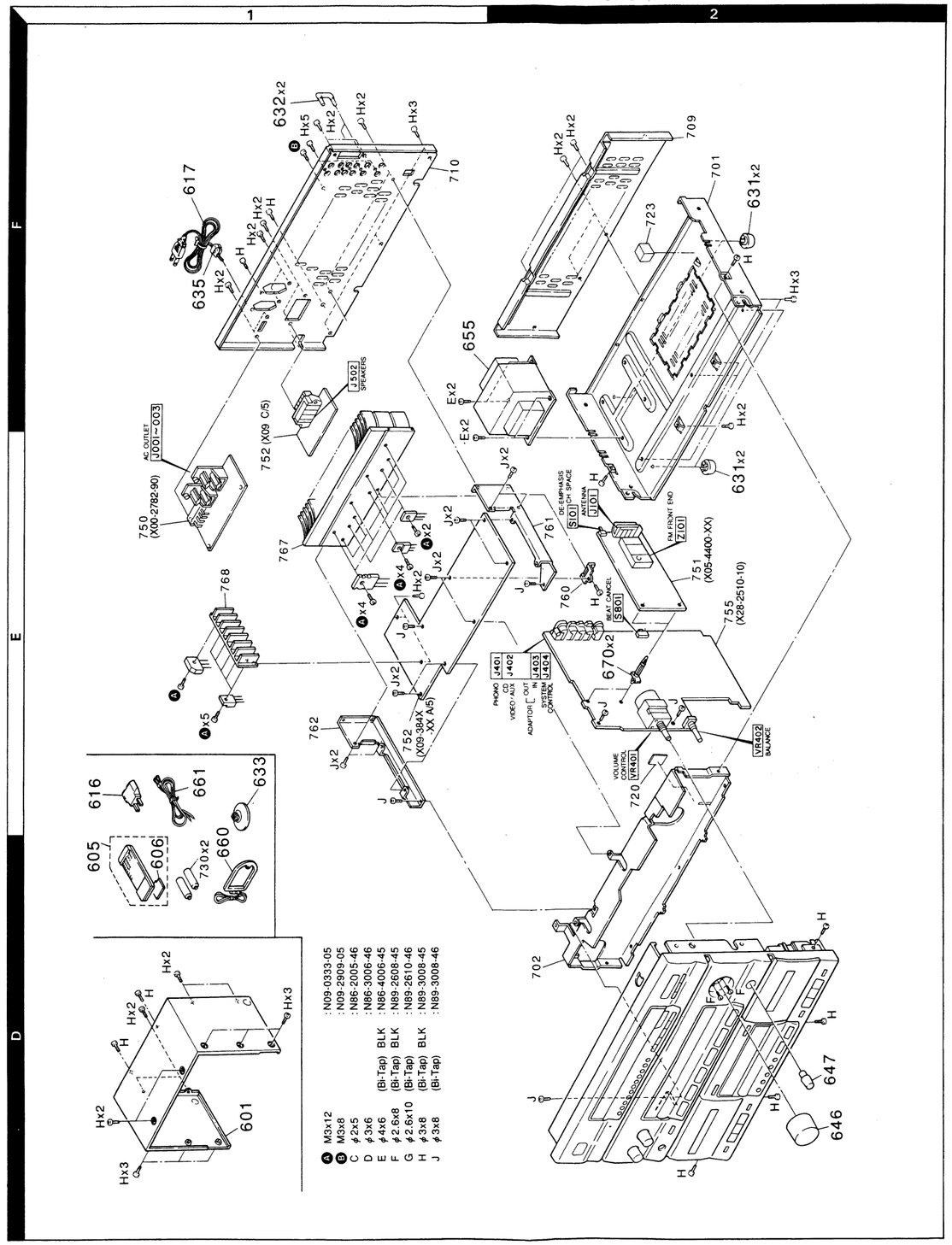
EXPLODED VIEW (MECHANISM UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

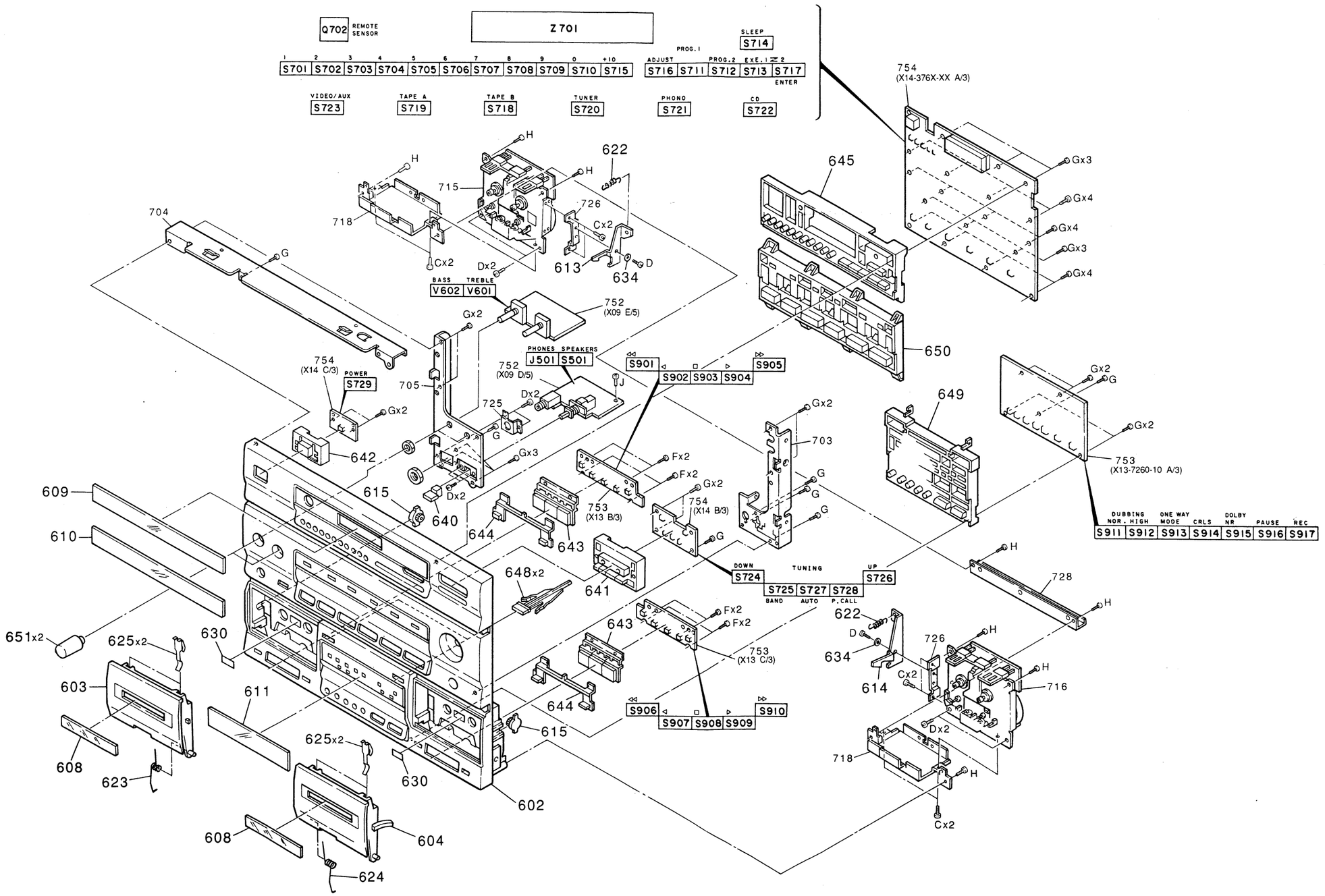
KRX-593/793

EXPLODED VIEW (UNIT) (1/2)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT) (2/2)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KRX-793			
601	1D		A01-3069-11	METALLIC CABINET		
602	3H	*	A60-0397-01	PANEL		
603	3G	*	A53-1407-02	CASSETTE HOLDER		A
604	3H	*	A53-1408-02	CASSETTE HOLDER		B
605	1D		A70-0592-05	REMOTE CONTROLLER ASSY		
606	1D		A09-0112-08	BATTERY COVER		
608	3G	*	B03-2835-04	DRESSING PLATE CASSETTE HOLDER		
609	2G	*	B03-2838-03	DRESSING PLATE TUNER		
610	2G	*	B03-2839-03	DRESSING PLATE AMP		
611	3G	*	B03-2840-03	DRESSING PLATE DECK		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-		*	B60-1186-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1187-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-1188-00	INSTRUCTION MANUAL (SPANISH)	M	
613	1H	*	D10-3370-04	EJECT LEVER		A
614	3I	*	D10-3371-04	EJECT LEVER		B
615	2H,3H		D39-0176-05	DAMPER		
⚠ 616	1E		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 617	1F		E30-0459-05	AC POWER CORD	M	
⚠ 617	1F		E30-0974-05	AC POWER CORD	KP	
622	1H,3I		G01-2331-04	EXTENSION SPRING		
623	3G		G01-3343-14	TORSION COIL SPRING		
624	3H		G01-3344-14	TORSION COIL SPRING		
625	3G,3H		G02-1001-24	FLAT SPRING		
630	3G,3H	*	G16-0814-04	SHEET		
		*	H50-0657-03	ITEM CARTON CASE	KP	
		*	H50-0681-03	ITEM CARTON CASE	M	
-		*	H10-5508-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5509-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0640-04	PROTECTION BAG		
631	2E,2F		J02-0366-15	FOOT		
632	1F		J12-0091-05	PIN		
633	1E	*	J19-3583-04	ANTENNA HOLDER		
634	1H		J31-0498-04	EJECT LEVER COLLAR		
⚠ 635	1F		J42-0083-05	POWER CORD BUSHING		
640	2H	*	K27-2103-04	KNOB SPEAKERS		
641	2H		K29-4112-03	KNOB TUNING,BAND,AUTO,P.CALL		
642	2H		K29-4113-04	KNOB POWER		
643	2H,3H		K29-4120-03	KNOB FWD,RVS,STOP		
644	2H,3H		K29-4121-03	KNOB FF,FR		
645	1I	*	K29-5708-02	KNOB 10 KEY,SLEEP		
646	2D	*	K29-5709-04	KNOB VOLUME CONTROL		
647	2D	*	K29-5719-04	KNOB BALANCE		
648	2H	*	K29-5722-04	KNOB EJECT		
649	2I	*	K29-5736-01	KNOB DECK CONTROL		
650	2I	*	K29-5737-01	KNOB AMP INPUT SELECTOR		
651	3G	*	K29-5738-03	KNOB BASS,TREBLE		

L:Scandinavia **K:**USA **P:**Canada
Y:PX(Far East, Hawaii) **T:**England **E:**Europe
Y:AAFES(Europe) **X:**Australia **M:**Other Areas

A: A MECHA
B: B MECHA

⚠ indicates safety critical components.

KRX-593/793

PARTS LIST

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Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
655	1F	*	L07-0694-05	POWER TRANSFORMER	KP	
655	1F	*	L07-0695-05	POWER TRANSFORMER	M	
B	1F		N09-2909-05	TAPTITE SCREW		
C	1H,3I		N86-2005-46	BINDING HEAD TAPTITE SCREW		
D	1H,2H		N86-3006-46	BINDING HEAD TAPTITE SCREW		
E	1F		N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	2I,3I		N89-2608-45	BINDING HEAD TAPTITE SCREW		
G	2I,2J		N89-2610-46	BINDING HEAD TAPTITE SCREW		
H	1F,2F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
J	1E,2E		N89-3008-46	BINDING HEAD TAPTITE SCREW		
660	1D		T90-0174-05	LOOP ANTENNA		
661	1E		T90-0182-15	LEAD WIRE ANTENNA		
			KRX-593			
601	1D		A01-3069-11	METALLIC CABINET		
602	3H	*	A60-0396-01	PANEL		
603	3G	*	A53-1407-02	CASSETTE HOLDER		A
604	3H	*	A53-1408-02	CASSETTE HOLDER		B
605	1D		A70-0592-05	REMOTE CONTROLLER ASSY		
606	1D		A09-0112-08	BATTERY COVER		
608	3G	*	B03-2835-04	DRESSING PLATE CASSETTE HOLDER		
609	2G	*	B03-2838-03	DRESSING PLATE TUNER		
610	2G	*	B03-2839-03	DRESSING PLATE AMP		
611	3G	*	B03-2840-03	DRESSING PLATE DECK		
-			B46-0092-23	WARRANTY CARD	K	
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-23	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-		*	B60-1186-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1187-00	INSTRUCTION MANUAL (FRENCH)	P	
-		*	B60-1188-00	INSTRUCTION MANUAL (SPANISH)	M	
613	1H	*	D10-3370-04	EJECT LEVER		A
614	3I	*	D10-3371-04	EJECT LEVER		B
615	2H,3H		D39-0176-05	DAMPER		
⚠ 616	1E		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 617	1F		E30-0459-05	AC POWER CORD	M	
⚠ 617	1F		E30-0974-05	AC POWER CORD	KP	
⚠ 617	1F		E30-2714-05	AC POWER CORD	X	
622	1H,3I		G01-2331-04	EXTENSION SPRING		
623	3G		G01-3343-14	TORSION COIL SPRING		A
624	3H		G01-3344-14	TORSION COIL SPRING		B
625	3G,3H		G02-1001-24	FLAT SPRING		
630	3G,3H	*	G16-0814-04	SHEET		
		*	H50-0658-03	ITEM CARTON CASE	KP	
		*	H50-0680-03	ITEM CARTON CASE	M	
-		*	H10-5508-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-5509-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0640-04	PROTECTION BAG		
631	2E,2F		J02-0366-15	FOOT		
632	1F	*	J12-0091-05	PIN		
633	1E	*	J19-3583-04	ANTENNA HOLDER		

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A: A MECHA
B: B MECHA

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PARTS LIST

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	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
	634	1H		J31-0498-04	EJECT LEVER COLLAR		
⚠	635	1F		J42-0083-05	POWER CORD BUSHING		
	640	2H	*	K27-2103-04	KNOB SPEAKERS		
	641	2H		K29-4112-03	KNOB TUNING,BAND,AUTO,P.CALL		
	642	2H		K29-4113-04	KNOB POWER		
	643	2H,3H		K29-4120-03	KNOB FWD,RVS,STOP		
	644	2H,3H		K29-4121-03	KNOB FF,FR		
	645	1I	*	K29-5708-02	KNOB 10 KEY,SLEEP		
	646	2D	*	K29-5709-04	KNOB VOLUME CONTROL		
	647	2D	*	K29-5719-04	KNOB BALANCE		
	648	2H	*	K29-5722-04	KNOB EJECT		
	649	2I	*	K29-5736-01	KNOB DECK CONTROL		
	650	2I	*	K29-5737-01	KNOB AMP INPUT SELECTOR		
	651	3G	*	K29-5738-03	KNOB BASS,TREBLE		
⚠	655	1F	*	L07-0515-15	POWER TRANSFORMER	KP	
⚠	655	1F	*	L07-0517-15	POWER TRANSFORMER	M	
⚠	655	1F	*	L07-0518-15	POWER TRANSFORMER	X	
	B	1F		N09-2909-05	TAPTITE SCREW		
	C	1H,3I		N86-2005-46	BINDING HEAD TAPTITE SCREW		
	D	1H,2H		N86-3006-46	BINDING HEAD TAPTITE SCREW		
	E	1F		N86-4006-45	BINDING HEAD TAPTITE SCREW		
	F	2I,3I		N89-2608-45	BINDING HEAD TAPTITE SCREW		
	G	2I,3J		N89-2610-46	BINDING HEAD TAPTITE SCREW		
	H	1F,2F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
	J	1E,2E		N89-3008-46	BINDING HEAD TAPTITE SCREW		
	660	1D		T90-0174-05	LOOP ANTENNA		
	661	1E		T90-0182-15	LEAD WIRE ANTENNA		
	POWER UNIT (X00-2782-90) (M type only)						
⚠	C34			C91-0647-05	CERAMIC 0.01UF AC250V	M	
⚠	J2 ,3			E03-0108-05	AC OUTLET	M	
	-			J13-0077-05	FUSE CLIP	M	
	S1		*	S76-0030-05	MAGNETIC RELAY	M	
⚠	S2			S31-2322-05	SLIDE SWITCH VOLTAGE SELECTOR	M	
	D15			S5688B	DIODE	M	
	Q8			2SC2003(L,K)	TRANSISTOR	M	
	TUNER UNIT (X05-4400 -10: K, P type -21: M type / -71: X type **)**						
	C101			C91-0769-05	CERAMIC 0.01UF K		
	C102		*	C91-1484-05	CERAMIC 0.022UF		
	C103			C91-0769-05	CERAMIC 0.01UF K		
	C104		*	C91-1484-05	CERAMIC 0.022UF		
	C105			CE04KW1C331M	ELECTRO 330UF 16WV		
	C106,107		*	C91-1483-05	CERAMIC 0.1UF		
	C109			CF92FV1H471J	MF 470PF J		
	C110			C91-0729-05	CERAMIC 22PF J		
	C111			C91-0725-05	CERAMIC 15PF J		
	C115		*	C91-1484-05	CERAMIC 0.022UF		
	C116			CE04KW1H100M	ELECTRO 10UF 50WV		
	C117,118		*	C91-1484-05	CERAMIC 0.022UF		
	C119			CE04KW1H100M	ELECTRO 10UF 50WV		
	C120-122		*	C91-1484-05	CERAMIC 0.022UF		

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KRX-593/793

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C123			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C124			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C125			C91-0769-05	CERAMIC 0.01UF K		
C126		*	C91-1483-05	CERAMIC 0.1UF		
C128			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C129		*	C91-1484-05	CERAMIC 0.022UF		
C130			CE04KW1H100M	ELECTRO 10UF 50WV		
C131			C91-0733-05	CERAMIC 33PF J		
C132			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C133		*	C91-1484-05	CERAMIC 0.022UF		
C134			CE04KW1E101M	ELECTRO 100UF 25WV		
C135		*	C91-1484-05	CERAMIC 0.022UF		
C137,138			CF92FV1H331K	MF 330PF K	MX	
C137,138			CF92FV1H471J	MF 470PF J	KP	
C139,140			CF92FV1H181K	MF 180PF K	M	
C141,142			CE04KW1H100M	ELECTRO 10UF 50WV		
C145			CE04KW1E101M	ELECTRO 100UF 25WV		
C146			CF92FV1H473J	MF 0.047UF J		
C147			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C148			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C149			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C150			CE04KW1H100M	ELECTRO 10UF 50WV		
C151		*	C91-1484-05	CERAMIC 0.022UF		
C153			C91-0757-05	CERAMIC 1000PF K		
C154		*	C91-1484-05	CERAMIC 0.022UF		
C155			C91-0729-05	CERAMIC 22PF J		
C201			CE04KW1E101M	ELECTRO 100UF 25WV		
C202			C91-0769-05	CERAMIC 0.01UF K		
C203		*	C91-1484-05	CERAMIC 0.022UF		
C204			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C205			CE04KW1C470M	ELECTRO 47UF 16WV		
C206		*	C91-1484-05	CERAMIC 0.022UF		
C207			C91-0757-05	CERAMIC 1000PF K		
C208,209			C91-0737-05	CERAMIC 47PF J		
C210-212			C91-0745-05	CERAMIC 100PF K		
J101			E20-0476-05	LOCK TERMINAL BOARD ANTTENA		
L101		*	L31-0610-05	MW-RF COIL		
L102		*	L32-0559-05	MW OSCILLATING COIL		
L103			L30-0439-25	FM IFT		
L104		*	L30-0903-05	AM IFT		
L105,106		*	L35-0069-05	MPX COIL		
Z102,103			L72-0531-05	CERAMIC FILTER		
Z104			L72-0096-05	CERAMIC FILTER		
Z105			L78-0286-05	RESONATOR 456.60kHz		
Z201			L77-1122-05	CRYSTAL RESONATOR 7.200MHz		
R108			RS14KB3D470J	FL-PROOF RS 47 J 2W		
R128,129			RS14KB3D470J	FL-PROOF RS 47 J 2W		
R212			RS14KB3D470J	FL-PROOF RS 47 J 2W		
VR126			R12-3099-05	TRIMMING POT.(47K)AM TUN LEVEL		
VR127			R12-3128-05	TRIMMING POT.(22K)FM TUN LEVEL		
S101			S31-2132-05	SLIDE SWITCH DE-EMPHASIS	M	
D101,102			1SS133	DIODE		
D103,104			SVC321-2	VARIABLE CAPACITANCE DIODE		

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D105-107			1SS133	DIODE			
IC103			LA1265	IC(FM/AM TUNER)			
IC107			LA3410	IC(PLL)			
IC201			LM7001	IC(PLL FREQUENCY SYNTHESIZER)			
Q101			2SC1923(R,O)	TRANSISTOR			
Q102			2SC1740S(Q,R)	TRANSISTOR			
Q105,106			2SA933S(Q,R)	TRANSISTOR			
Q109,110			2SK246(Y)	FET		M	
Q202			2SC1740S(Q,R)	TRANSISTOR			
Q203			2SC1845(F,E)	TRANSISTOR			
Z101		*	W02-1162-05	FM FRONT-END ASSY			
AUDIO UNIT (X09-3840 -11, 10: K, P type -22, 21: M type / -71: X type)							
C1 ,2			CK45FE2H103P	CERAMIC	0.010UF	P	
C3 ,4		*	C91-1484-05	CERAMIC	0.022UF		
C5			CE04KW1E222M	ELECTRO	2200UF	25WV	KP
C5			CE04KW1V222M	ELECTRO	2200UF	35WV	M
C6			CE04KW1H101M	ELECTRO	100UF	50WV	
C7			CE04KW1E222M	ELECTRO	2200UF	25WV	KP
C7			CE04KW1V222M	ELECTRO	2200UF	35WV	M
C8			CE04KW1E102M	ELECTRO	1000UF	25WV	KP
C8			CE04KW1V102M	ELECTRO	1000UF	35WV	M
C9 -11		*	C91-1485-05	CERAMIC	0.047UF		M
C9 -14		*	C91-1484-05	CERAMIC	0.022UF		KP
C12 -14		*	C91-1484-05	CERAMIC	0.022UF		M
C15 -17			CE04KW1C221M	ELECTRO	220UF	16WV	
C18			CE04KW1V470M	ELECTRO	47UF	35WV	
C19			CE04KW1C101M	ELECTRO	100UF	16WV	
C20			CE04KW1V470M	ELECTRO	47UF	35WV	
C21		*	C91-1484-05	CERAMIC	0.022UF		
C22			CE04KW1H010M	ELECTRO	1.0UF	50WV	
C23			C90-1827-05	BACKUP	0.047F	5.5WV	
C24		*	C91-1484-05	CERAMIC	0.022UF		
C25			CE04KW1C221M	ELECTRO	220UF	16WV	
C26			CE04KW1V220M	ELECTRO	22UF	35WV	
C27 ,28			C90-1760-05	ELECTRO	8200UF	71WV	7
C27 ,28			C90-1871-05	ELECTRO	6800UF	63WV	5
C29			CE04KW1H101M	ELECTRO	100UF	50WV	
C30 -33		*	C91-1484-05	CERAMIC	0.022UF		
⚠ C34			C91-0647-05	CERAMIC	0.01UF	AC250V	KP
C501,502			C91-0748-05	CERAMIC	180PF	K	
C503,504			CE04KW1H4R7M	ELECTRO	4.7UF	50WV	
C505,506			C91-0748-05	CERAMIC	180PF	K	
C507,508			C91-0735-05	CERAMIC	39PF	J	
C509,510		*	C91-1485-05	CERAMIC	0.047UF		
C511-514			CE04KW1C101M	ELECTRO	100UF	16WV	
C515-518		*	C91-1483-05	CERAMIC	0.1UF		
C519,520			C91-0763-05	CERAMIC	0.0033UF	M	
C521,522			CE04KW1J470M	ELECTRO	47UF	63WV	5
C521,522			CE04KW2A470M	ELECTRO	47UF	100WV	7
C523,524			CE04HW1C101M	NP-ELEC	100UF	16WV	
C529		*	C91-1485-05	CERAMIC	0.047UF		
C530			CE04KW1J470M	ELECTRO	47UF	63WV	5
C530			CE04KW2A470M	ELECTRO	47UF	100WV	7
C531,532			C91-0753-05	CHIP C	470PF	K	

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MC-Service

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C533			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C534			CE04KW1C330M	ELECTRO 33UF 16WV		
C537,538			C91-0725-05	CERAMIC 15PF J		
C601,602			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C603,604			CF92FV1H823J	MF 0.082UF J		
C605,606			CF92FV1H224J	MF 0.22UF J		
C607,608			CF92FV1H334J	MF 0.33UF J		
C609,610			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C611,612			C91-0745-05	CERAMIC 100PF K		
⚠ J1			E03-0117-05	AC OUTLET	KP	
⚠ J1			E03-0141-05	AC OUTLET	X	
J501		*	E11-0252-05	PHONE JACK HEAD PHONE		
J502		*	E20-1405-05	LOCK TERMINAL BOARD SPEAKER		
⚠ F1			F04-2025-05	FUSE (UL) (250V 2A)	KP	5
⚠ F1			F04-2025-05	FUSE (UL) (250V 2A)	KP	7
⚠ F1 ,2			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	M	5
⚠ F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15A)	MX	7
⚠ F2			F04-5022-05	FUSE (UL) (125V 5A UL)	KP	7
⚠ F2			F06-3027-05	FUSE (UL) (250V 3A)	KP	5
⚠ F3 ,4			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	M	
⚠ F3 ,4			F05-1628-05	FUSE (UL) (250V 1.6A)	KP	
⚠ F5			F06-2021-05	FUSE (SEMKO) (250V T2A)	M	5
⚠ F5			F06-2021-05	FUSE (SEMKO) (250V T2A)	M	7
-			J13-0077-05	FUSE CLIP		
-			J61-0307-05	WIRE BAND		
L501,502		*	L39-1321-05	PHASE COMPENSATION COIL		
A	1E		N09-0333-05	TAPPING SCREW (3X12)		
H	1F,2F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
R2			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
R10			R92-0173-05	RC 2.2M M 1/2W	KP	
R11			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R507,508			RD14GB2E681J	FL-PROOF RD 680 J 1/4W		
R517,518			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R523,524			RD14GB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
R525,526			RD14GB2E331J	FL-PROOF RD 330 J 1/4W		
R527,528			R90-0840-05	RD 0.22 5W		
R537,538		*	R92-1758-05	RN 10 1W		
R550			RD14GB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
R551,552			RD14GB2E121J	FL-PROOF RD 120 J 1/4W		
R555,556		*	R92-1758-05	RN 10 1W		
R557,558			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R561,562			RD14GB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
R607,608		*	R92-1760-05	RN 1K 2W		
R609,610		*	R92-1759-05	RN 360 1W		
VR501,502			R12-1067-05	TRIMMING POT.(2.2K)IDL ADJ		
VR601,602		*	R10-3051-05	POTENTIOMETER BASS,TREBLE		
S1		*	S76-0030-05	MAGNETIC RELAY SPEAKER ON/OFF	KP	
S501			S40-2178-05	PUSH SWITCH		
S502		*	S76-0031-05	MAGNETIC RELAY		
D1			RS603	DIODE		
D2 -10			S5688B	DIODE		
D11			RD30ES(B)	ZENER DIODE		

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D12 ,13			1SS133	DIODE		
D14			RD8.2ES(B2)	ZENER DIODE		
D15			S5688B	DIODE	KP	
D17			S5688B	DIODE		
D18			1SS133	DIODE		
D501-504			1SS133	DIODE		
D505,506			1SS131	DIODE		
D507-510			1SS133	DIODE		
D511			1SS131	DIODE		
D512-515			1SS133	DIODE		
D516			S5688B	DIODE		
D517			1SS133	DIODE		
Q1			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
Q2			UPC7815AHF	IC(VOLTAGE REGULATOR/ +15V)		
Q3			UPC7915HF	IC(VOLTAGE REGULATOR/ -15V)		
Q4			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
Q5			PST529D	IC(SYSTEM RESET)		
Q6			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
Q7			2SB764	TRANSISTOR		
Q8			2SC2003(L,K)	TRANSISTOR	KP	
Q501-506			2SA992(E,F)	TRANSISTOR		
Q507,508			2SA1124	TRANSISTOR		
Q509,510			2SC4137	TRANSISTOR		
Q511,512			2SC2632	TRANSISTOR		
Q513,514			2SC3944(Q,R)	TRANSISTOR		
Q515,516			2SA1535(Q,R)	TRANSISTOR		
Q517,518			2SD1718	TRANSISTOR		7
Q517,518			2SD2064	TRANSISTOR		5
Q519,520			2SB1163	TRANSISTOR		7
Q519,520			2SB1371	TRANSISTOR		5
Q521-523			2SC1740S(Q,R)	TRANSISTOR		
Q524			2SA933S(Q,R)	TRANSISTOR		
Q525			2SC2003(L,K)	TRANSISTOR		
Q526			2SC3244	TRANSISTOR		
Q527			DTA115TS	DIGITAL TRANSISTOR		
Q528			2SC1845(F,E)	TRANSISTOR		
SWITCH UNIT (X13-7260-10)						
D918-928		*	B30-2457-05	LED(SLP-138B-51)		
S901-917			S40-1064-05	PUSH SWITCH KEY BOARD		
D901-917			1SS133	DIODE		
Q901-905			DTA143TS	DIGITAL TRANSISTOR		
DISPLAY UNIT (X14-3760 -10: K, P type -21: M type / -71: X type)						
D718-723		*	B30-2457-05	LED(SLP-138B-51)		
C701-703		*	C91-1484-05	CERAMIC 0.022UF		
C704			CC45PSL1H270J	CERAMIC 27PF J		
C705			CC45PSL1H330J	CERAMIC 33PF J		
C706			C90-3253-05	ELECTRO 1UF 50WV		
C707,708		*	C91-1484-05	CERAMIC 0.022UF		
C710			C90-3253-05	ELECTRO 1UF 50WV		
X702			L77-1176-05	CRYSTAL RESONATOR(4.1943M)		

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S701-729			S40-1064-05	PUSH SWITCH KEY BOARD		
D701-710			1SS133	DIODE	M	
D701-717			1SS133	DIODE	KP	
D712-717			1SS133	DIODE	M	
D724,725			RD8.2ES(B2)	ZENER DIODE		
Q701		*	UPD75208CW-B49	IC(MICROPROCESSOR)		
Q703			2SC1740S(Q,R)	TRANSISTOR		
Z701			CF1155C	INDICATOR TUBE		
Q702			W02-1153-05	ELECTRIC CIRCUIT MODULE		
REC/PLAY UNIT (X28-2510-10)						
C301,302			C91-0745-05	CERAMIC 100PF K		
C303,304			C91-0755-05	CERAMIC 680PF K		
C305,306			CE04KW1A101M	ELECTRO 100UF 10WV		
C307-310			C91-0752-05	CERAMIC 390PF K		
C311,312			CF92FV1H103J	MF 0.010UF J		
C313,314			CE04KW1H100M	ELECTRO 10UF 50WV		
C315,316			CF92FV1H823J	MF 0.082UF J		
C317			CE04KW1A101M	ELECTRO 100UF 10WV		
C319,320			CF92FV1H222J	MF 2200PF J		
C321			CE04KW1C470M	ELECTRO 47UF 16WV		
C323,324			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C325,326			CE04KW1H100M	ELECTRO 10UF 50WV		
C327,328			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C329,330			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C331			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C332			CE04KW1C220M	ELECTRO 22UF 16WV		
C333			CE04KW1C101M	ELECTRO 100UF 16WV		
C334			CE04KW1C331M	ELECTRO 330UF 16WV		
C335,336			CE04KW1HR22M	ELECTRO 0.22UF 50WV		
C337,338			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C339,340			CE04KW1A101M	ELECTRO 100UF 10WV		
C341,342			CE04KW1H100M	ELECTRO 10UF 50WV		
C346,347			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C348			CE04KW1H100M	ELECTRO 10UF 50WV		
C349,350			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C351,352			CC45FSL1H101J	CERAMIC 100PF J		
C353,354			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C355,356			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C357,358			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C359,360			CE04KW1H100M	ELECTRO 10UF 50WV		
C361,362			C91-0755-05	CERAMIC 680PF K		
C363,364			CC45FSL1H220J	CERAMIC 22PF J		
C365,366			C91-0745-05	CERAMIC 100PF K		
C367			C91-0700-05	CERAMIC 0.1UF J		
C401,402			CK45FB1H221K	CERAMIC 220PF K		
C403,404			CE04KW1H100M	ELECTRO 10UF 50WV		
C405-408			CK45FB1H221K	CERAMIC 220PF K		
C409,410			CE04KW1A470M	ELECTRO 47UF 10WV		
C411,412			CF92FV1H123J	MF 0.012UF J		
C413,414			CF92FV1H332J	MF 3300PF J		
C415,416			CE04KW1H100M	ELECTRO 10UF 50WV		
C417,418			CE04KW1C470M	ELECTRO 47UF 16WV		
C419,420			CE04KW1A101M	ELECTRO 100UF 10WV		

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C421			CK45FB1H221K	CERAMIC 220PF K		
C423,424			CE04KW1C470M	ELECTRO 47UF 16WV		
C425-430			CE04KW1H100M	ELECTRO 10UF 50WV		
C431,432			CK45FB1H821K	CERAMIC 820PF K		
C433			CF92FV1H332J	MF 3300PF J		
C434			CE04KW1H100M	ELECTRO 10UF 50WV		
C435			CE04KW1C101M	ELECTRO 100UF 16WV		
C436			CF92FV1H104J	MF 0.10UF J		
C437			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C438			CK45FB1H221K	CERAMIC 220PF K		
C439			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C440-442			CE04KW1H100M	ELECTRO 10UF 50WV		
C443			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C444			CE04KW1C220M	ELECTRO 22UF 16WV		
C445			CE04HW1H3R3M	NP-ELEC 3.3UF 50WV		
C446			CE04KW1H100M	ELECTRO 10UF 50WV		
C457			CK45FB1H221K	CERAMIC 220PF K		
C458			CK45FF1H103Z	CERAMIC 0.010UF Z		
C459			CK45FF1H223Z	CERAMIC 0.022UF Z		
C460			CE04HW1H3R3M	NP-ELEC 3.3UF 50WV		
C461,462			C91-0757-05	CERAMIC 1000PF K		
C463,464			C91-0751-05	CERAMIC 330PF K		
C801			CE04KW1H100M	ELECTRO 10UF 50WV		
C802			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C803			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C804			CE04KW1C101M	ELECTRO 100UF 16WV		
C805,806			CF92FV1H103J	MF 0.010UF J		
C807			CF92FV1H224J	MF 0.22UF J		
C808			CQ93HP2A103J	MYLAR 0.010UF J		
C809			CQ93HP2A102J	MYLAR 1000PF J		
C810			CK45FF1H103Z	CERAMIC 0.010UF Z		
C811,812			CK45FB1H221K	CERAMIC 220PF K		
C901			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C903			CE04KW1A101M	ELECTRO 100UF 10WV		
C904			CK45FF1H103Z	CERAMIC 0.010UF Z		
C905			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C906,907			CK45FB1H221K	CERAMIC 220PF K		
C908,909			CK45FF1H103Z	CERAMIC 0.010UF Z		
C910,911			CK45FF1H223Z	CERAMIC 0.022UF Z		
C912			CE04HW1H4R7M	NP-ELEC 4.7UF 50WV		
C913,914			CK45FB1H102K	CERAMIC 1000PF K		
J401			E63-0008-05	PHONO JACK PHONO		
J402			E63-0009-05	PHONO JACK CD,AUX/VIDEO,AD OUT		
J403			E63-0008-05	PHONO JACK ADAPTOR IN		
J404			E11-0188-05	MINIATURE PHONE JACK SYNCHRO		
670	2E		J19-3331-05	UNIT HOLDER		
L801,802		*	L39-1320-05	TRAP COIL		
L803		*	L32-0558-05	BIAS OSCILATING COIL		
L901			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
X901			L78-0267-05	RESONATOR 4.194MHz		
CP901			R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
CP902			R90-0819-05	MULTI-COMP 47KX6 J 1/6W		
CP903		*	R90-0908-05	MULTIPLE RESISTOR		

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Q321,322			2SJ103(Y)	FET		
Q323,324			DTC124TS	DIGITAL TRANSISTOR		
Q325			DTA124ES	DIGITAL TRANSISTOR		
Q326-329			2SC1740S(Q,R)	TRANSISTOR		
Q401,402			2SD1302(S,T)	TRANSISTOR		
Q403			DTC124ES	DIGITAL TRANSISTOR		
Q406			2SC1740S(Q,R)	TRANSISTOR		
Q407			2SA933S(Q,R)	TRANSISTOR		
Q408,409			2SD1302(S,T)	TRANSISTOR		
Q410			2SA933S(Q,R)	TRANSISTOR		
Q411,412			2SD1302(S,T)	TRANSISTOR		
Q801			DTC124ES	DIGITAL TRANSISTOR		
Q802			2SD863	TRANSISTOR		
Q803			DTC343TS	DIGITAL TRANSISTOR		
Q804			2SD863	TRANSISTOR		
Q805			2SA933S(Q,R)	TRANSISTOR		
Q806,807			2SC1845(F,E)	TRANSISTOR		
Q906,907			2SC3246	TRANSISTOR		
Q908,909			DTC124ES	DIGITAL TRANSISTOR		
Q910			2SA933S(Q,R)	TRANSISTOR		
Q911			DTC124ES	DIGITAL TRANSISTOR		
Q912,913			2SC3246	TRANSISTOR		
Q914			DTC124ES	DIGITAL TRANSISTOR		
Q915			2SA933S(Q,R)	TRANSISTOR		
Q916			2SC1740S(Q,R)	TRANSISTOR		
Q917			DTA124ES	DIGITAL TRANSISTOR		
Q918			2SC1740S(Q,R)	TRANSISTOR		
Q919,920			DTC124ES	DIGITAL TRANSISTOR		
Q921			2SA933S(Q,R)	TRANSISTOR		
Q922			DTA124ES	DIGITAL TRANSISTOR		
CASSETTE MECHANISM ASS'Y (A: D40-1211-05 B: D40-1212-05)						
301	2A	*	A10-2922-08	HEAD CHASSIS CALKED ASSY		
302	1B		A11-0754-08	BASE CHASSIS ASSY		
305	1C		D01-0138-08	FLYWHEEL ASSY LEFT		
306	2C		D01-0139-08	FLYWHEEL ASSY RIGHT		
308	2B		D10-3210-08	SHIFT LEVER		
309	2A		D10-3211-08	PLAY SHIFT LEVER		
310	2B		D10-3212-08	INTER LOCK LEVER RIGHT		A
310	2A		D10-3220-08	INTER LOCK LEVER LEFT		B
312	1B		D10-3214-08	FR ARM		
313	1A		D10-3215-08	PLAY ARM		
314	1C		D10-3216-08	SHIFT SELECT LEVER		
315	2B		D10-3217-08	TRIGGER ARM		
316	2B		D10-3218-08	SELECT ARM		
317	1C		D10-3219-08	BRAKE ARM		
319	1B		D13-0965-08	CLUTCH GEAR		
320	1B		D13-0966-08	REW GEAR		
321	1B		D13-0967-08	FR GEAR		
322	1B,2B		D13-0968-08	REEL GEAR		
323	2C		D13-0970-08	PLAY CAM GEAR		
324	1A		D13-0974-08	PLAY GEAR ASSY		
325	2A		D13-0981-08	ROTATION GEAR		
326	2A		D13-0982-08	RETURN GEAR		
329	2B		D19-0270-18	REEL CAP		
330	1C		D19-0273-08	CLUTCH PULLEY ASSY		

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CP904			R90-0874-05	MULTI-COMP 470PX9 J		
CP905			R90-0804-05	MULTI-COMP 47KX8 J 1/4W		
CP906		*	R90-0908-05	MULTIPLE RESISTOR		
R958			RS14KB3D820J	FL-PROOF RS 82 J 2W		
VR301-304			R12-1069-05	TRIMMING POT.(4.7K)PLAY LEVEL		
VR305,306			R12-3097-05	TRIMMING POT.(22K) REC LEVEL		
VR401		*	R29-5078-05	POTENTIOMETER VOLUME		
VR402		*	R05-5056-05	POTENTIOMETER BALANCE		
VR801,802			R12-5046-05	TRIMMING POT.(100K)BIAS		
VR901			R12-1067-05	TRIMMING POT.(2.2K)HI SPEED B		
VR902			R12-1069-05	TRIMMING POT.(4.7K)NOR SPEED B		
VR903			R12-1067-05	TRIMMING POT.(2.2K)HI SPEED A		
VR904			R12-1069-05	TRIMMING POT.(4.7K)NOR SPEED A		
S801			S31-2095-05	SLIDE SWITCH BEAT CANCEL		
D301			RD8.2JS(B2)	ZENER DIODE		
D302-304			1SS133	DIODE		
D306-310			1SS133	DIODE		
D311-314			1SS131	DIODE		
D315,316			1SS133	DIODE		
D401,402			RD8.2ES(B2)	ZENER DIODE		
D403,404			RD6.8ES(B2)	ZENER DIODE		
D405,406			1SS133	DIODE		
D407			RD5.1ES(B2)	ZENER DIODE		
D408-423			1SS133	DIODE		
D425,426			RD30ES(B)	ZENER DIODE		
D801,802			1SS133	DIODE		
D929-932			1SS133	DIODE		
D933,934			S5688B	DIODE		
D935-937			1SS133	DIODE		
D938,939			S5688B	DIODE		
D940			1SS133	DIODE		
D943-948			1SS133	DIODE		
D949		*	RD4.3ES(B3)	DIODE		
IC301			LA3246	IC(PREAMP X2)		
IC302			HA12136A	IC(DOLBY B NR SYSTEM)		
IC303			CXA1198AP	IC(CASSETTE DECK REC EQUALIZER		
IC304			XRU4051B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC305			TC9213P	IC(2CH ELECTRONIC VOLUME)		
IC306			BA15218	IC(OP AMP X2)		
IC401			UPC4570C-A	IC(OP AMP X2)		
IC402			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC403			TC9215P	IC(ANALOG SWITCH X 6)		
IC404			NJM4565L-D	IC(OP AMP X2)		
IC405			BA15218	IC(OP AMP X2)		
IC901		*	UPD75112CW-184	IC		
IC902			TA8409S	IC(MOTOR CONTROL)		
Q301-304			DTC114TS	DIGITAL TRANSISTOR		
Q305,306			2SC1740S(Q,R)	TRANSISTOR		
Q307-310			DTC143TS	DIGITAL TRANSISTOR		
Q311,312			DTC124ES	DIGITAL TRANSISTOR		
Q313-315			DTC124TS	DIGITAL TRANSISTOR		
Q316			DTC124ES	DIGITAL TRANSISTOR		
Q317,318			2SC1740S(Q,R)	TRANSISTOR		
Q319,320			2SK373(Y)	FET		

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332	2B		D23-0269-08	HOUSING ASSY RIGHT		
333	1A		D23-0270-08	HOUSING ASSY LEFT		
335	1C		E35-0264-08	MOTOR WIRE		
336	1C		E35-0356-08	FLAT WIRE 15P		A
336	1C		E35-0358-08	FLAT WIRE 15P		B
337	2C		E35-0357-08	HEAD WIRE 3P		A
337	2C	*	E35-0359-08	HEAD WIRE 8P		B
338	1C		E40-4244-05	PIN CONNECTOR		
340	2A		G01-3428-08	RETURN GEAR SPRING		
341	1B		G01-3429-08	REEL SPRING		
342	1C		G01-3431-08	CLUTCH ARM SPRING		
343	1A		G01-3432-08	PLAY ARM SPRING		
344	1C		G01-3433-08	SHIFT SELECT LEVER SPRING		
345	2C		G01-3434-08	TRIGGER ARM SPRING		
346	2B		G01-3435-08	SHIFT LEVER SPRING		
347	2A		G01-3436-08	HEAD CHASSIS SPRING		
348	2B		G01-3437-08	PINCH ROLLER ARM SPRING RIGHT		
349	1A		G01-3438-08	PINCH ROLLER ARM SPRING LEFT		
350	1C		G01-3439-08	BRAKE ARM SPRING		
351	2A		G01-3440-08	INTER LOCK LEVER SPRING RIGHT		A
351	2A		G01-3441-08	INTER LOCK LEVER SPRING LEFT		B
353	1B		G02-0913-08	PACK LOCK FLAT SPRING		
354	2A		G02-0994-08	AZIMUTH SPRING		
355	2A		G11-2117-08	HEAD WIRE CLAMPER		
356	1B		G16-0780-08	REFLECT SEAL		
357	2A		G16-0786-08	INSULATING SHEET		
358	2A	*	J21-5789-08	HEAD PLATE ASSY		
360	2A		J31-0850-08	RETURN GEAR COLLAR		
362	2B		J42-0183-08	REEL CAP BUSHING		
363	2A	*	J90-0679-08	TAPE GUIDE LEFT		
364	2A		J90-0680-08	CASSETTE GUIDE		
366	2A,2B		N09-2871-08	TAPPING SCREW M2X6		
367	2A		N09-2872-08	TAPPING SCREW M1.7X8		
368	2A	*	N09-2873-08	WASHER HEAD SCREW M2X6		
369	2A		N09-2876-08	HEAD SCREW		
370	2A,2B		N09-2877-08	TAP TITE SCREW M2X4		
371	2A	*	N09-2883-08	AZIMUTH SCREW		
372	1B		N19-1224-08	FLAT WASHER /4.1X6.5X0.25		
373	1C		N19-1225-08	FLAT WASHER /2.1X4.0X0.25		
374	1B		N19-1285-08	FLAT WASHER /1.6X3.0X0.13		
375	2C		N19-1286-08	FLAT WASHER /2.3X4.0X0.25		
376	2A		N19-1287-08	FLAT WASHER /3.5X6.5X0.5		
377	1A		N19-1288-08	FLAT WASHER /1.65X5.0X0.5		
378	2B		N19-1289-08	FLAT WASHER /1.8X6.0X0.5		
379	1B		N35-2604-46	BINDING HEAD MACHINE SCREW		
385	1C		S74-0006-08	LEAF SWITCH (REC,METAL,Cr02)		
386	1C		S74-0007-08	LEAF SWITCH (PACK DETECT)		
388	2B	*	T94-0226-08	SOLENOID ASSY		
390	1C		W02-1130-08	ELECTRIC UNIT		
BM	1C		D16-0326-08	MAIN BELT		
PF	2B		D14-0341-08	PINCH ROLLER ASSY		
PR	2A		D14-0340-08	PINCH ROLLER ASSY		
MM	1B		T42-0608-08	DC MOTOR ASSY		
PH	2A		T31-0066-08	PLAYBACK HEAD		A

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RPEH	2A		T39-0020-08	REC/PLAYBACK/ERASE HEAD		B
PH1	1C		NJL5165K	PHOTO REFLECTOR		
R3			RD14BB2C152J	RD 1.5K J 1/6W		

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KRX-593/793

SPECIFICATIONS

Amplifier section

Rated power output for the KRX-793
(For the U.S.A. and Canada)

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion. (FTC)

(For other countries)
(IHF '66) From 40 Hz to 20,000 Hz,
0.9 % T.H.D. at 8 Ω ..... 80 W + 80 W
1 KHz, 0.9 % T.H.D. at 8 Ω ..... 90 W + 90 W

Rated power output for the KRX-593

50 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20,000 Hz with no more than 0.9% total harmonic distortion. (FTC)

Total harmonic distortion
at 1/2 rated power ..... 0.05 %
Signal to noise ratio
PHONO (MM) ..... 70 dB
CD, VIDEO ..... 100 dB
Input sensitivity/Impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD, VIDEO ..... 200 mV/33 kΩ

Tuner section

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity
(IHF at 75 Ω) ..... 0.95 μV/10.8 dBf
Total harmonic distortion (at 1 kHz, 65 dBf input)
MONO ..... 0.4 %
Signal to noise ratio (at 1 kHz, 65 dBf input)
MONO ..... 78 dB
STEREO ..... 68 dB
Stereo separation (at 1 kHz) ..... 40 dB
Frequency response
(30 Hz to 15 kHz) ..... +1.0 dB, -2.0 dB

AM tuner section
Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz
For U.S.A. and Canada model
..... 530 kHz ~ 1,700 kHz
Usable sensitivity ..... 14 μV/(500 μV/m)

Cassette deck section

Type ..... 4 track 2 channel stereo
Heads
Playback/Record head (Deck B) 1
Playback head (Deck A) 1
Erasing head (Deck B) 1
Motors ..... 1 (each deck)
Fast winding time
(Deck A) ..... Approx. 110 seconds with C-60 tape
Frequency response (Deck B)
Normal tape ..... 30 Hz to 16,000 Hz, ±3 dB
CrO_2 tape ..... 30 Hz to 17,000 Hz, ±3 dB
Signal to noise ratio
DOLBY NR ON ..... 62 dB (Normal tape)
DOLBY NR OFF ..... 55 dB (Normal tape)
Wow and flutter ..... 0.08 % (W.R.M.S.)

General

Power consumption for the KRX-793
For the U.S.A. and Canada ..... 200 W
For other countries ..... 200 W (IEC)

Power consumption for the KRX-593
For the U.S.A. and Canada ..... 130 W
For other countries ..... 130 W (IEC)

AC outlets
For U.S.A. and Canada
SWITCHED ..... 2 (200 W, 1.6 A max)
For other countries
SWITCHED ..... 2 (200 W max.)
Dimension ..... W: 440 mm (17-5/16")
H: 343 mm (13-1/2")
D: 290 mm (11-7/16")
Weight (net) ..... 12.0 kg (26.4 lb)

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

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